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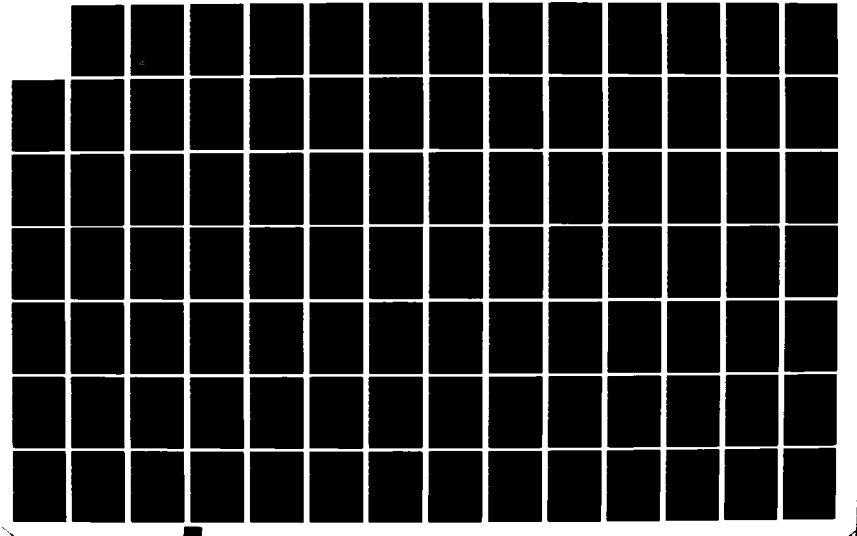

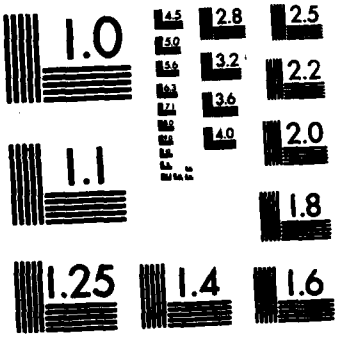


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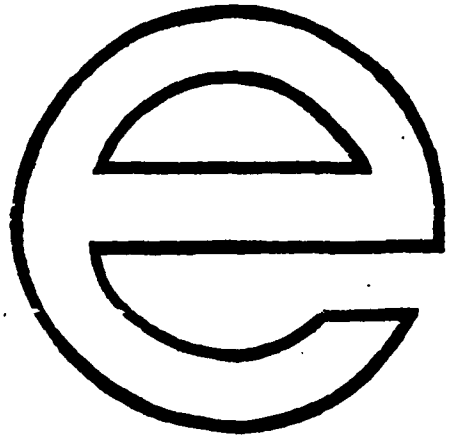
# editspec

## Basic Procedures Manual



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## Automated Construction Specification System

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The EDITSPEC System is an automated system designed to produce construction specifications from Corps of Engineers Guide Specifications. The System uses one central computer and a communications network to provide remote terminal access by Corps offices, nationwide to a central data base.

The purpose of this manual is to provide a written description of procedures required to apply EDITSPEC to produce construction specifications. The EDITSPEC system provides many different methods to perform each procedure. Only the simplest method is presented. Also included are procedures for the specification writer in preparing specification sections.

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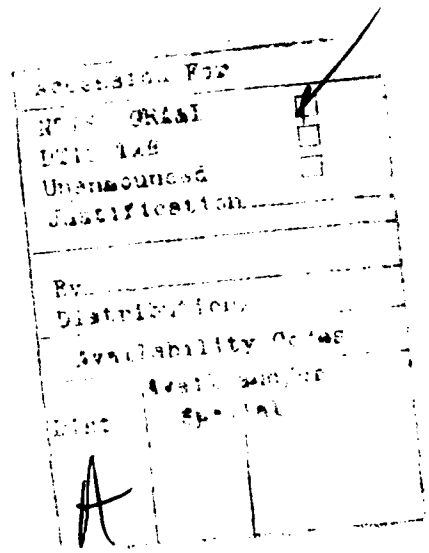
15 November 1981



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS

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# INTRODUCTION

## 1. PURPOSE.

The purpose of this manual is to provide a written description of procedures required to apply EDITSPEC to produce construction specifications. The EDITSPEC system provides many different methods to perform each procedure. Only the simplest method is presented. After mastering the commands mentioned in these procedures, the complete EDITSPEC user manual should be studied to learn other applications for performing assigned tasks. Also included are procedures for the specification writer in preparing specification sections.

## 2. EQUIPMENT.

The characteristics of the computer terminals required to ineract with the EDITSPEC system and produce an acceptable product are as follows:

a. ASCII code

b. Upper and lower case

c. Twelve characters per inch

d. Six lines per inch

e. Solid characters

f. One hundred and thirty-two characters per line width

The Government has a requirements contract for a Qume Sprint 5 Series terminal, manufactured by the ALANTHUS Corporation, Rockville, MD. Each Corps office performing military construction will be furnished a copy of this requirements contract. A delivery order may be written for terminals, as needed.

## 3. COMPUTER SERVICES.

The Government maintains a unit price requirements contract for all computer services. Each Corps office will be furnished a copy of this contrct, to which a delivery order may be written for computer services.

## 4. EDITSPEC ACCESS.

a. User ID. The Government maintains the EDITSPEC system. Supervisory access to the system will be given to the Chief of Specifications. The Chief of Specifications can give access to supervisors and users under the Chief of Specifications control. A unique two-digit preassigned prefix will be provided each Corps office to be used for all user identification numbers assigned. This prefix must be used by all personnel.

b. Account Numbers. One EDITSPEC account number will be given to the Chief of Specifications. The Chief of Specifications can give supervisors and users access to this EDITSPEC account number. When specifications are developed by Architect-Engineer firms, the project specification writer must provide the government reviewer access to all the project sections for review and approval. All documents (sections) related to the same project are assigned the same first four prefix characters in the twelve character document name. The Government will provide the four characters to be applied when a project is being prepared by an Architect-Engineer. (Example: The Corps of Engineers Guide Specifications have a prefix "CEGS".)

c. Data Sets. Each data set, in the EDITSPEC system, is identified by a unique six-character name. The first two characters of the name indicate the Government office for which the project is being designed. The third and fourth characters indicate the project and the fifth and sixth characters are used to indicate data sets within the project.

The digits '0', '1', '2', and '3' are not valid characters for the first character of the project data set name. The characters '0' and '1' are used to indicate active guide specification data sets. The characters '2' and '3' are used to indicate inactive or superseded guide specification data sets.

5. PROBLEM SOLVING.

The Government maintains a HOT LINE to help solve problems and answer questions. All users are encouraged to use this service to improve productivity and to learn the EDITSPEC system as quickly as possible.

HOT LINE: 205-895-5229 (Commercial)
8-873-5229 (FTS)

## PROCEDURE 1

## ENTER AND EXIT THE EDITSPEC SYSTEM

1. GENERAL DESCRIPTION.

In order to get into EDITSPEC two logons are required. First you must logon in the time sharing operation and answer the questions that the computer will ask you. There will be three questions before the user can logon to EDITSPEC as shown below.

2. PROCEDURES.

System responses are typed in upper case letters. The user types the answers to the questions in lower case as specified after the word 'Type:'.

Step 1. Dial the phone number for the computer. Upon hearing the tone of the computer, connect the telephone to the moden.

Depress Return Key (Return).

Step 2. Type: tso (to enter the time sharing operation)
Return

```
WELCOME TO NVIP
PLEASE SIGN ON
```

NOTE: You are now ready to logon to time sharing operation.

Step 3. Type: logon_user id/password_size(2500)_a(account number)
Return

```
'USER ID' LOGON IN PROGRESS AT 'CURRENT TIME' ON 'CURRENT DATE'
*** WELCOME TO N.V.I.P. 033d TIME SHARING OPTION ***
*** USE THE NEWS COMMAND FOR CURRENT INFORMATION ***
**** news was updated as of 'DATE UPDATED' *********
**************************************************
*****     THE DATE IS: 'CURRENT DATE'   ************
*****     THE TIME IS: ' CURRENT TIME'  ************
**************************************************
DO YOU WANT TO INPUT DATA FROM THE DISKETTE
ENTER YES OR NO
```

Step 4. Type: no
Return

```
DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC
```

Step 5. Type: no
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 6. Type: yes
Return

NOTE: There will be a short wait before the date is typed followed by a carriage return and a period. The period is your prompt to logon to EDITSPEC.

DATE: 'CURRENT DATE'

Step 7. Type: .logon_user id;account number;password.
Return

. *** USER LOGGED-ON TO EDITSPEC SYSTEM.
THE PRESENT TIME IS 'CURRENT TIME'
THE PRESENT DATE IS 'CURRENT DATE'

NOTE: After this message, a period will be printed which is your prompt to enter a command. The period will be printed each time the computer has processed a command in EDITSPEC to let you know it is now ready for the next command. You will remain in EDITSPEC until a logof command is issued.

Step 8. Type: .logof.
Return

. *** USER LOGGED-OFF EDITSPEC SYSTEM.

***END-OF-INPUT ENCOUNTERED.
. *********JOB HAS BEEN TERMINATED *********
DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS(YES OR NO)

Step 9. Type no
Return

NOTE: There will be a short wait before the system response.

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOFF

Step 10. Type no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 11. Type no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 12. Type yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 13. Type no
Return

```
TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'
        ************************************************************
        *****   THE CONNECT TIME IS LISTED AS SESSION ON    *****
        *****   THE ABOVE LINE. THE CONNECT TIME CHARGE     *****
        *****            IS 13 CENTS/MINUTE                 *****
        ************************************************************
        TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
        EXECUTION WAS DURING NORMAL WORKING DAY
        THE CPU TIME IN HUNDREDTHS OF SECONDS:  'CPU TIME'
        THE EXCP COUNT (IO):  'EXCP COUNT'
        THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS:  'COST'
        'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
        LAST STEP COMPLETION CODE WAS USER   000
```

Session Complete

PROCEDURE 2

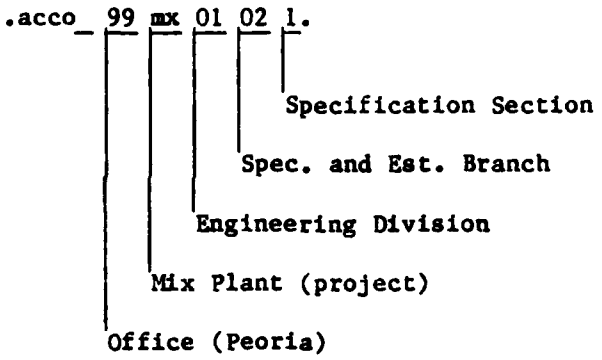
CREATING EDITSPEC ACCOUNT NUMBERS,
USER ID'S, AND GRANTING ACCESS

1. GENERAL DESCRIPTION.

All resources, including account numbers and user id's, must be easily identified with the user's office/agency. The first two characters of all account numbers, user id's, data set names, and document names are mandatory and indicate the office controlling resources.

2. ACCOUNT NUMBERS.

The account numbers are usually related to projects. The third and fourth characters are mandatory and indicate the standard project identifier. The fifth through the twelth characters are optional and can be applied in any manner such as subaccounting information by division, branch, and section. One example is as follows:




3. USER ID.

Users are divided into two categories, supervisors and nonsupervisors. Each user has a unique id up to twelve alphanumeric characters, and should be related to the organizational structure of the office. The first two characters are mandatory; i.e., characters 1 and 2 are used for the office designation, 3 and 4 should be used for the office location. The remaining alphanumeric characters (5 thru 12) may be used. An example of the 12 alphanumeric character id is as follows:

| Character | Definition | Example |
|---|---|---|
| 1-2 | Office | 99 (preassigned id for Peoria) |
| 3-4 | Location | 00 inhouse<br>01 Contractor No. 1<br>02 Contractor No. 2 |
| 5-6 | Division | 01 Engineering |
| 7-8 | Branch | 02 Specs and Estimate |
| 9 | Section | 1 Specs |
| 10-12 | Personnel | abc |

COMMAND

.user_990001021abc.

4. ACCESS:

The user must be given access to previous account numbers by the access command (.acce). Only a supervisor having access to an account may grant access to another user. Supervisor 99mx01021aaa wishes to grant access to a new user.

COMMANDS

.acco_99mx01021.

.user_990001021abc.

.acce_;99mx01021;990001021abc.

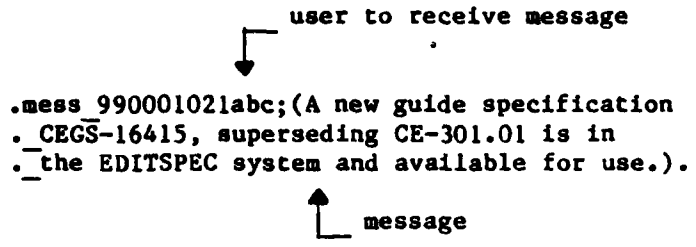
PROCEDURE 3

SENDING MESSAGES WITHIN EDITSPEC

1. GENERAL DESCRIPTION.

The .mess command is used to send a message to another EDITSPEC user. The user will receive the message as soon as a .logon or .logof command is issued.

2. COMMANDS.



PROCEDURE 4

OBTAIN A CURRENT COPY OF A CORPS OF
ENGINEERS GUIDE SPECIFICATION FOR TEXT EDITING

1. GENERAL DESCRIPTION.

The user has a requirement for an up-to-date copy of guide specification CEGS-04200 to be used in project "99mx". In order to automatically receive all messages/notices of changes to the guide specification, a .noti command will be issued as soon as the user has logged into EDITSPEC.

2. PROCEDURES:

System responses are typed in upper case letters. The user types the answers to the questions as specified after the word 'Type:'.

Step 1. Dial the phone number for computer.
Depress Return Key (Return)

Step 2. Type: tso (to enter the time sharing operation
Return
Welcome to NVIP
PLEASE SIGN ON

Step 3. Type: logon_user id/password_size(2500)_a(account no.)
Return

'User ID' LOGON IN PROGRESS AT 'CURRENT TIME' 'CURRENT DATE'
*** WELCOME TO N.V.I.P. 033d TIME SHARING OPTION ***
*** USE THE NEWS COMMAND FOR CURRENT INFORMATION ***
**** news was updated as of 'DATE UPDATED' ****
**********
***** THE DATE IS: 'CURRENT DATE' **********
***** THE TIME IS: 'CURRENT TIME' **********
**********

DO YOU WANT TO INPUT DATA FROM THE DISKETTE
ENTER YES OR NO

Step 4. Type: no
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
Enter 'No' To Proceed directly to EDITSPEC

Step 5. Type: no
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT
DATA SETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC
no - to proceed to the listing of the document data sets
yes - to proceed directly into EDITSPEC

Step 6. Type: yes
Return

Type the following EDITSPEC commands to receive messages and notice changes to the guide specification.

Step 7. .logon spec writer user id; spec writer account number; password.
.noti (cegs04200.00).
.logof.

*** USER LOGGED-OFF EDITSPEC SYSTEM.
***END-OF-INPUT ENCOUNTERED.
DO YOU WANT TO LIST ANY OF THE DOCUMENT DATA SETS (YES OR NO)

(unformatted working copy and printed formatted version created by the .gs command).
no - to continue logoff procedure
yes - to list document data sets

Step 8. Type: yes
Return

DO YOU WANT TO LIST CATALOG OF THE DOCUMENT DATA SETS
no - no catalog listed
yes - catalog will be listed immediately

Step 9. Type: no
Return

DO YOU WISH TO REVIEW ANY OF THESE DATA SETS
ENTER 'NO' TO PROCEED WITH LOGOFF PROCEDURE

yes - to review data sets
no - to proceed with logoff procedure

Step 10. Type: yes
Return

WHICH DATA SET DO YOU WANT TO LIST?
THE DATA SET NAME IS OF THE FORMAT
YYYY.EDTSPC.GUID.C1.PXXXXXX.PXXXXXX OR
YYYY.EDTSPC.GUID.D1.PXXXXXX.PXXXXXX WHERE
THE YYYY IS THE CREATOR ID FOR A SET OF DOCUMENTS
THE FIRST SIX X'S ARE THE FIRST 6 CHARACTERS OF THE DOCUMENT NAME AND
THE LAST SIX X'S ARE THE LAST SIX CHARACTERS IF THEY EXIST
NOTE THAT ANY PERIOD(.) IN THE DOCUMENT SHOULD BE CHANGED
TO AN ALPHABETIC P I.E. CEGS.00 IS CEGSP00

Step 11. Type: e795.edtspc.guid.c1.pcegs04.p200p00 (for working copy of an OCE guide specification)
Return

yes - if data set name is correct
no - if data set name is incorrect
The system will respond with the message 'REENTER THE DATA SET NAME'. The user reenters the data set name until a 'yes' is issued, verifying that the data set name is correct.)

Step 12. Type: yes
Return

IF YOU WANT THIS DATA SET PRINTED AT CENTRAL SITE ENTER 'C'
IF YOU WANT THIS DATA SET PRINTED AT THIS TERMINAL ENTER 'T'

c - central site printing (The system will submit a job number.)
t - immediately printed at terminal

Step 13. Type: t
Return

LISTING OF DATA SET STARTS AT: 'CURRENT TIME'
(C1 DATA SET LISTED)
LISTING OF DATA SET ENDS AT: 'CURRENT TIME'
DO YOU WISH TO REVIEW OR DELETE ANY OTHER DATA SETS?
ENTER 'NO' TO CONTINUE WITH EDITSPEC

yes - another document data set needs to be listed
(loops to question 'WHICH DATA SET DO YOU WANT TO LIST?')
no - continue with EDITSPEC or the logoff procedure

Step 14. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATA SETS
ENTER NO TO PROCEED WITH LOGOFF

Step 15: Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 16: Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION: (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 17: Type: Yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 18: Type: no
Return

```
TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'
          ************************************************************
          *****   THE CONNECT TIME IS LISTED AS SESSION ON    *****
          *****   THE ABOVE LINE. THE CONNECT TIME CHARGE     *****
          *****            IS 13 CENTS/MINUTE                 *****
          ************************************************************
          TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
          EXECUTION WAS DURING NORMAL WORKING DAY
          THE CPU TIME IN HUNDREDTHS OF SECONDS:  'CPU TIME'
          THE EXCP COUNT (IO):  'EXCP COUNT'
          THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS:  'COST'
          'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
          LAST STEP COMPLETION CODE WAS USER   000
```

PROCEDURE 5

OBTAIN A COPY OF CE GUIDE SPECIFICATION AND
DESIGN CONDITION CHECKLIST FOR AUTOMATIC GENERATION

1. GENERAL DESCRIPTION.

A specification writer has requested an up-to-date copy of CEGS-04200 and the design condition checklist to be used to produce a project section. As soon as the operator enters the EDITSPEC system a .noti command must be given to enable the specification writer to receive all messages and notice changes related to CEGS-04200.

2. PROCEDURES.

System responses are typed in upper case letters. The user types the answers to the questions as specified after the word 'Type:'.

Step 1. Dial the phone number for the computer
Depress Return Key (Return)

Step 2. Type tso (to enter the time sharing operation)
Return

WELCOME TO NVIP
PLEASE SIGN ON

Step 3. Type: logon_user id/password_size(2500)_a(account number)
Return

'User ID' LOGON IN PROGRESS AT 'CURRENT TIME' 'CURRENT DATE'
*** WELCOME TO N.V.I.P. 033d TIME SHARING OPTION ***
*** USE THE NEWS COMMAND FOR CURRENT INFORMATION ***
**** news was updated as of 'DATE UPDATED' ****
**********
***** THE DATE IS: 'CURRENT DATE' **********
***** THE TIME IS: 'CURRENT TIME' **********
**********

DO YOU WANT TO INPUT DATA FROM THE DISKETTE
ENTER YES OR NO

Step 4. Type: no
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 5. Type: no
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 6. Type: yes
Return

NOTE: Type the following EDITSPEC commands to receive messages for CEGS-04200.

DATE: 'CURRENT DATE'

Step 7. Type: .logon_spec writer user id;spec writer user account number;password.
Return

Step 8. Type: .noti (cegs04200.00).
Return

Step 9. Type: .logon_user id;account no;password.
Return

. *** USER LOGGED-OFF EDITSPEC SYSTEM
. *** USER LOGGED-ON EDITSPEC SYSTEM
THE PRESENT TIME IS 'CURRENT TIME'
THE PRESENT DATE IS 'CURRENT DATE'

Step 10. Type: .edit (cegs04200.00).
Return

ENTER A DESCRIPTION OF THE WORK TO BE PERFORMED

Step 11. Type: 2.3
Return

TIME: 'CURRENT TIME' DATE: 'CURRENT DATE'
*** SYSTEM IN EDIT-MODE: CYCLE NUMBER: 'CURRENT CYCLE'

Step 12. Type: .pr_16;1,x;void,not1,not2;;1;1;;;;;;;;3.
Return

****.OUT NO16.T171119 WAS ALLOCATED AS THE TERMINAL FILE
THIS DOCUMENT WAS NOT GENERATED FROM ANOTHER DOCUMENT.
*** LOGIC CONDITIONS TABLE IS EMPTY.
COMMAND IGNORED BUT PROCESSING CONTINUES.
THE TERMINAL OUTPUT DATA SET WAS SUCCESSFULLY STORED AND DEOALLOCATED

Step 13. Type: .logof.
Return

COMMAND ISSUED:
'CURRENT TIME' DATE 'CURRENT DATE'
ELASPSED TIME OF EDIT/STORE SESSION: MINUTES.
*** EXIT EDIT MODE.
*** USER LOGGED-OFF EDITSPEC SYSTEM.
*** END-OF-INPUT ENCOUNTERED.
**********JOB HAS BEEN TERMINATED *********
.

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATA SETS (YES OR NO)

Step 14. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATA SETS
ENTER NO TO PROCEED WITH LOGOFF

Step 15. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 16. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 17. Type: no
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 18. Type: yes
Return

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ------- XXXX.OUT.NO16.T171119
IN-CAT ---- SYSCTLG.VSHAR01
DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC

Step 19. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

**Step 20.** **Type: 1**
**Return**

**WHICH DATA SET DO YOU WANT TO LIST/DELETE?**

**Step 21.** **Type: xxxx.out.no16.t171119**
**Return**

LISTING OF DATA SET STARTS AT: 'CURRENT TIME'

**Document will be printed as requested.**

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM -------- XXXX.OUT.NO16.t171119
IN-CAT ----- SYSCTLG.VSHARR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC

Step 22. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 23. Type: del
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 24. Type: xxxx.out.no16.t171119
Return

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED

THERE ARE NO DATA SETS AVAILABLE TO BE LISTED OR DELETED
SESSION CONTINUING WITH EDITSPEC
DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

**Step 25.** **Type: no**
**Return**

**DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)**

**Step 26.** **Type: no**
**Return**

**DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS**
**ENTER NO TO PROCEED WITH LOGOFF**

Step 27. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 28. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 29. Type: yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 30. Type: no
Return

```
TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'
          ************************************************************
          *****   THE CONNECT TIME IS LISTED AS SESSION ON    *****
          *****   THE ABOVE LINE. THE CONNECT TIME CHARGE     *****
          *****            IS 13 CENTS/MINUTE                 *****
          ************************************************************
          TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
          EXECUTION WAS DURING NORMAL WORKING DAY
          THE CPU TIME IN HUNDREDTHS OF SECONDS:  'CPU TIME'
          THE EXCP COUNT (IO):  'EXCP COUNT'
          THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS:  'COST'
          'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
          LAST STEP COMPLETION CODE WAS USER   000
```

PROCEDURE 6

PREPARE TEXT FOR ENTRY INTO
THE EDITSPEC SYSTEM

1. GENERAL.

Project unique text, prepared by the specification writer must be properly coded for incorporation in the project specification section. The operator must know how to apply the EDITSPEC internal format commands.

2. GUIDANCE.

Chapter 4, Command Methodology of the user manual has the commands listed by activity for ease of learning the commands. Required format codes for the standard print format adopted by the Corps of Engineers are contained in Appendix B. The following examples are provided to aid the user in coding text.

a. An example of coding of page one of a guide specification using commands listed below, is shown in Figure 6.1:

Commands

| | |
|---|---|
| *si3* | instructs the system to increment the third subfield of the page numbering format when printing a project specification |
| *bp | begin paragraph numbering with 1 |
| *hs | defines the header storage text and it's location on the printed page |
| *lj | left justify |
| *u* | underscore |
| *ue* | underscore end |
| *cj | center justify |
| *sl* | skip line |
| *sl4* | skip 4 blank lines |
| *rj(B)* *sl* | right justify (B) and skip line |
| *p2a26* | standard paragraph identifier for automatic section identifier in a project section |
| *sll* *rj(C)* *np* *sl* | skip one line, print note identifer (C) right justified, depress the normal line skipping for the next paragraph, return to the next line |

| | |
|---|---|
| *tc | enter into the table of contents |
| *p1* | first level of defined paragraph format |
| *p2* | second level of defined paragraph format |
| *tb 250* | beginning of a table to be formatted as defined by table format 250 |
| *r* | beginning of a row |
| $ | column separator character |
| *te* | end of a table |

b. Figure 2 is an example of coding required to define the first page to be printed of a project specification section, block text that is to always appear on the same page, to reset paragraph numbering within the text, and how to indicate the end of a line to be stored in EDITSPEC. The following commands were used in the example:

Commands:

| | |
|---|---|
| *bp 26;9,F* | Reset the *p2a26* for Section 9G, last section was 9F |
| *bn 26;3;9,G,1* | begin page numbering with 9G-1 |
| *p2a26* | standard paragraph identifier for automatic section number |
| *cj | center justify |
| *tc | add character string to table of contents |
| *p1* | first level of defined paragraph format |
| *p2* | second level of defined paragraph format |
| *tb 250* | beginning of table to be formatted as defined in table format 250 |
| *r* | row |
| $ | column separator character |
| *te* | end of table |
| *sl* | skip to next line |
| *fl | text marked by a flag command to indicate the designer must make a choice |

| | |
|---|---|
| *b* | beginning of text to be blocked |
| *be* | ending of text to be blocked |
| / | begin a new line |

c. Figure 3 is an example of coding required to define placing a table on a separate page, indicate table headings, and tablenotes, by using the following commands:

Commands:

| | |
|---|---|
| *sp* | skip page |
| *tb 24011* | beginning of table to be formatted as defined by table format 024011 |
| *r* | row |
| $ | column separator character |
| *n | tablenote (to be automatically numbered) |
| *te* | end of table |

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS

CEGS-04401 November 1978
Superseding
CE-04401
December 1976

CORPS OF ENGINEERS GUIDE SPECIFICATION
MILITARY CONSTRUCTION

SECTION _____ (B)

INTERIOR STONE (A)

1. APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only. (C)

American Society for Testing and Materials (ASTM) Publications:

C 97-47 (R 1977) — Test Methods for Absorption and Bulk Specific Gravity of Natural Building Stone.

C 99-52 (R 1976) — Test Method for Modulus of Rupture of Natural Building Stone.

C 119-74 — Definitions of Terms Relating to Natural Building Stones.

C 241-51 (R 1976) — Test for Abrasion Resistance of Stone Subjected to Foot Traffic.

C 568-67 (R 1977) — Dimension Limestone.

C 615-68 (R 1977) — Structural Granite.

C 616-68 (R 1977) — Building Sandstone.

C 629-68 (R 1977) — Structural Slate.

Marble Institute of America (MIA) Publication:

Marble Design Manual I-R.

2. SUBMITTALS:

Shop Drawings: Shop drawings shall be submitted for approval in accordance with the SPECIAL PROVISIONS. Shop drawings shall indicate the details of jointing, number and location of anchors, anchorage system, and setting diagrams.

Figure 6.1. Guide Specification, Page 1.



Preceding page blank

*bp-26;9,F*
*bn-26;3;9,G,1*
*p2a26*-*sl1* ~~SECTION 9G~~

*cj FURRING, METAL, LATHING, AND PLASTERING*-*sl*

*tc-1;*p1*-

1. APPLICABLE PUBLICATIONS.* The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

*p2*-

1.1 Federal Specifications (Fed. Spec.):-*sl1*

*tb-250*

*r*-QQ-L-101c — $ — Lath, Metal, (and Other Metal Plaster Bases)-*sl*

*r*-QQ-N-281D — $ — Nickel-Copper Alloy Bar, Rod, Plate, Sheet, Strip, Wire, Forgings, and Structural and Special Shaped Sections

*te*

*p2*-

~~1.2~~ American National Standards Institute, Inc. (ANSI) Standard:-*sl1*

*tb-250*

*r* A42.4-1967 — $ — Specifications for Interior Lathing and Furring

*te*

*p2*

~~1.3~~ American Society for Testing and Materials (ASTM) Publications:-*sl1*

*tb-250*

*r*-A 109-72-*sl*-(R 1979)-*sl* — $ — Steel, Carbon, Cold-Rolled Strip

*r*-A 570-79 — $ — Hot-Rolled Carbon Steel Sheet and Strip, Structural Quality-*sl*

*r*-C 28-80 — $ — Gypsum Plasters-*sl*

*r*-C 29-78 — $ — Unit Weight and Voids in Aggregate-*sl*

*r*-C 35-76 — $ — Inorganic Aggregates for Use in Gypsum Plaster

*te*

*b* *tc-1;*p1*-*fl1;$ $*

2. GENERAL:* Gypsum plaster with Keene's cement finish as included herein shall be applied as specified hereinafter to those areas indicated in the finish schedule. Ceilings shall include exposed overhead surfaces. Metal framing and furring systems for application of metal plaster base on ceilings, are included. Plaster base coat proportions are given in Table II, and the required types or thickness of lath are in Table I at the end of this section. Ends of wire ties used for lathing and furring shall receive three full twists and be bent into the plane of the lath.

*be*

Figure 6.2. Project Specifications Section, Page 1.

*sp*
*tb 24011*
*th*_*u*_ Plaster base *ue*_$_*u*_ Thickness of plaster _*ue*

| | | |
|---|---|---|
| *r*_Metal plaster base | — $ — | 5/8 inch, minimum (1) *n_ |
| *r*_Gypsum plaster base | — $ — | 1/2 inch, minimum<br>3/4 inch, minimum for furred walls with 3/8-inch lath |
| *r*_Masonry walls | — $ — | 5/8 inch, minimum |
| *r*_Concrete walls | — $ — | 5/8 inch, maximum |
| *r*_Concrete ceilings | — $ — | 1/8 inch, minimum<br>3/8 inch, maximum (2) *n_ |

(1) The total plaster thickness from the back plane of the metal plaster base exclusive of ribs shall be not less than 3/4 inch.*

(2) Concrete ceilings requiring plaster more than 3/8-inch thick to produce the required lines and surfaces shall be lathed with ribbed or self-furring metal plaster base.*

*te*
*sp*

Figure 6.3. Coded Table.

PROCEDURE 7

PREPARATION OF A PROJECT SPECIFICATION
BY TEXT EDITING

1. PROJECT SPECIFICATION SECTION.

The specification writer has tailored guide specification CEGS-10801 and made flag choices (Figures 7.1, 7.2 and 7.3) to reflect project unique requirements and is ready for a final copy of the project specification to be prepared.

2. OPERATOR PROCEDURES.

Upon receipt of the final draft of the project specification the operator must perform the following tasks:

a. Identify project. An assigned prefix of four unique characters to identify all sections of specification for this project was assigned, i.e. "mwhs" for a warehouse building at the Mississippi Army Ammunition Plant.

b. Access the System. Prior to entering the EDITSPEC system, the operator must follow the procedure given to enter and leave the computer.

c. Editing. The following system, internal and editing commands were applied to produce the specification section.

| | |
|---|---|
| .logon 99000102labc;mwhs01. | (User id and acct number) |
| The following commands are to be issued only once per document. | |
| .noti (cegs10801.00). | (To receive message of changes to document) |
| .size 180. | Number of lines per document (number lines per page X number pages) or the space command may be used. |
| .dscr (mwhs01);180. | (Create the data set) |
| .new (99mw10801.00);(mwhs01);;1. | (Create new document stored on data set 99mw01 without an immediate edit) |
| .acce (mwhs10801.00)(w);; (990001021???) | (Grant all users whose ID match the mask write access) |
| .edit (99mw10801.00). | (Edit the document and enter activity description, i.e., creation of spec or reviewing schedules in specification) |
| project | |

```
.cf (cegs10801.00);2,5,6,7,9,10,          (Copy flags from cegs applicable
  11, 12, 14, 15, 16.                      to project spec)
.fc 2;2.
.fc 5;2.
.fc 6;1.
.fc 7;2.
.fc 9;1.
.fc 10;1.                                  (selected flag choice)
.fc 11;3.
.fc 12;2.
.fc 14;1.
.fc 15;2.
.sc 16;1;(2.4 ).
.fc 16;1.
.co (cegs10801.00);10-20;;;nm;proj.        (internal codes for project spec)
.co (cegs10801.00);1220;;;nm;proj.         (section number)
.co (cegs10801.00);1225-1300;;;nm.         (section title)
.co (cegs10801.00);1400-1700;;;;;1.        (paragraph 1)

400  *tc 1; *p1* APPLICABLE PUBLICATIONS* :  The Federal Specifications
     (Fed. Spec.) listed below /
500  forms a part of this specification to the extent referenced.  The /
600  publications are referred to in the text by the basic designation only. *s11* /
.ch 500;/forms/;/form/.
.en ;/*tb 250*/.                           (table format id on next available
                                            line when a line number is not
                                            specified)
.ct (cegs10801.00);2100;;;;;nm.
.ct (cegs10801.00);2200;;;;;nm.            (applicable publications)
.en ;/*te*/.                               (end of table)
.co (cegs10801.00);2600-3200;;;nm.
.co (cegs10801.00);3300-3900;;;nm.         (text)
.co (cegs10801.00);4000-4400;;;nm.
.en ;/. /.                                 (enter punctuation mark)
.stor 1.                                   (storing to prevent work loss
                                            if power failure, etc.)
.en ;/*b*/.                                (text to be blocked)
.co (cegs10801.00);4600-4710;;;nm.         (text copied)
.ct (cegs10801.00);4900;;;;;nm.            (table copied)
.en ;/*be*/.                               (end of block
.co (cegs10801.00);5600-5700;;;nm.
.co (cegs10801.00);5800-6000;;;nm.         (text)
.co (cegs10801.00);6700-7300;;;nm.
.co (cegs10801.00);7400;;;nm.
                                           (project unique text)
.in.
Fed. Spec. WW-P-541, Type III, Class 2.  Cabinet shall be 16 inches wide,
20 inches high, and 6 inches deep.  Mirror shall be plate or float glass.
Design of swing door cabinet assembly
(cr)                                       (end input mode)
```

```
.co (cegs10801.00);8500-9100;;;nm.
.co (cegs10801.00);9700-10100;;;nm.        (text)
.co (cegs10801.00);11900-12600;;;nm.
.co (cegs10801.00);13700-13900;;;nm.
                                           (project unique text)
.in.

*p2* Wood Shelves (WS):  Shelves shall be 10 inches wide by 5 feet long and
shall be made of 2-inch thick clear white oak.  Fasteners, including
mounting bolts shall be concealed.  Edges on front and ends of shelves
shall be rounded to 1/2-inch radius.  Shelves and support brackets shall be
thoroughly sanded to remove tool marks and finished with three coats of
polyurethane varnish.
(cr)                                       (end input mode)
.co (cegs10801.00);15400-15800;;;nm.
.co (cegs10801.00);16900-17000;;;nm.
.co (cegs10801.00);17500-18500;;;nm.       (text)
.co (cegs10801.00);18600;;;nm.
.stor 1.
.in.                                       (input of project unique text
                                            table with proper coding)

*b*
*tb 108014*
*cj ACCESSORIES REQUIRED* *sll*
*th* *u* Room *ue* $ *u* CH *ue* $ *u* GB *ue* $ *u* MC *ue* $ *u* MG *ue*
$ *u* PTD *ue* $ *u* SNTD *ue* $ *u* SD *ue* $ *u* WS *ue* $ *u* SMLD *ue*
$ *u* TTD *ue* $ *u* WR *ue*
*r* 100 $ 3 $ 1 $ $ 1 $ 2 $ $ 3 $ $ 3 $ 3 $ 2
*r* 127 $ 3 $ 1 $ $ 1 $ 2 $ 1 $ 3 $ $ 3 $ 3 $ 2
*r* 139 $ 1 $ $ 1 $ 1 $ 1 $ $ 1 $ 1 $ $ 1 $ 1
*r* 145 $ 1 $ $ 1 $ 1 $ 1 $ 1 $ 1 $ 1 $ $ 1 $ 1
*te*
*be*
         (At this point, the user may elect to list the text
         for proofing)
(cr)                                       (end input mode)
.stor.                                     (exit edit mode, enter system mode)

                                           (table format for table entered)
.tabl 108014;b3c4,b3c2,b3c2,b3c2,b3c2,b3c3,b3c4,b3c2,b3c2,b3c4,b3c3,b3c2;11.
.edit (mwhs10801.00).                      (edit document then enter the activity)
.bp 26;10.
.bn 26;3;10,A.                             (begin numbering with 10A)

      NOTE: Resolve the external references with reference removal
      and flag removal switches set to 1 (.rr_;1;1.) before the
      final printing of the document.

.pr 26;1,x;void,proj;;1;;;1.               (print without index, page and
                                            paragraph initialization, at a
                                            users high speed printer)

.logof.
```

The system will respond with the following questions.
(User types answers as noted).

```
                    ***END-OF-INPUT ENCOUNTERED.
              **********JOB HAS BEEN TERMINATED**********

          DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)
```

Step 1. Type: no
Return

```
          DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
          ENTER NO TO PROCEED WITH LOGOF
```

Step 2. Type: no
Return

```
          DO YOU WISH TO CONTINUE WITH EDITSPEC?   (YES OR NO)
```

Step 3. Type: no
Return

```
          DO YOU WISH TO TERMINATE THIS SESSION?   (YES OR NO)
          IF 'NO' WILL RETURN TO EDITSPEC
```

Step 4. Type: no (Sends you to the out data sets)
Return

```
          DO YOU WANT A LIST OF THE .OUT. DATA SETS?
          ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC
```

Step 5. Type: yes
Return

System will respond with:

```
        THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
          NONVSAM ------- XXXX.OUT.JL23.T105722
             IN-CAT ---- SYSCTLG.VSHAR01

        DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
        ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC
```

Step 6. Type: yes
Return

```
        DO YOU WANT TO LIST OR DELETE THE DATA SET?
        ENTER L FOR LIST OR DEL FOR DELETE
```

Step 7. Type: l
Return

```
        WHICH DATA SET DO YOU WANT TO LIST/DELETE?
```

Step 8. Type: xxxx.out.j123.t105722
Return

Step 9. Before doing a carriage return, position your paper for correct top margin.

The document will be printed as requested (Figure 7.4). Upon completion of printing the system will respond with the following.

```
    LISTING OF DATA SET ENDS AT:   11:33:47 (current time)
THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
          NONVSAM --------- XXXX.OUT.JL23.T105722
               IN-CAT------- SYSCTLG.VSHAR01

          DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
          ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC
```

Step 10. Type: Yes
Return

```
          DO YOU WANT TO LIST OR DELETE THE DATA SET?
          ENTER L FOR LIST OR DEL FOR DELETE
```

Step 11. Type: del
Return

NOTE: (To keep storage to a minimum, always delete after listing)

```
          WHICH DATA SET DO YOU WANT TO LIST/DELETE?
```

Step 12. Type: xxxx.out.j123.t105722
Return

```
          DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
          ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
          ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC
```

Step 13. Type: no
Return

```
          DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
          ENTER NO TO PROCEED WITH LOGOFF
```

Step 14. Type: no
Return

```
          DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)
```

Step 15. Type: no
Return

```
          DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
          IF 'NO' WILL RETURN TO EDITSPEC
```

Step 16. Type: yes
Return

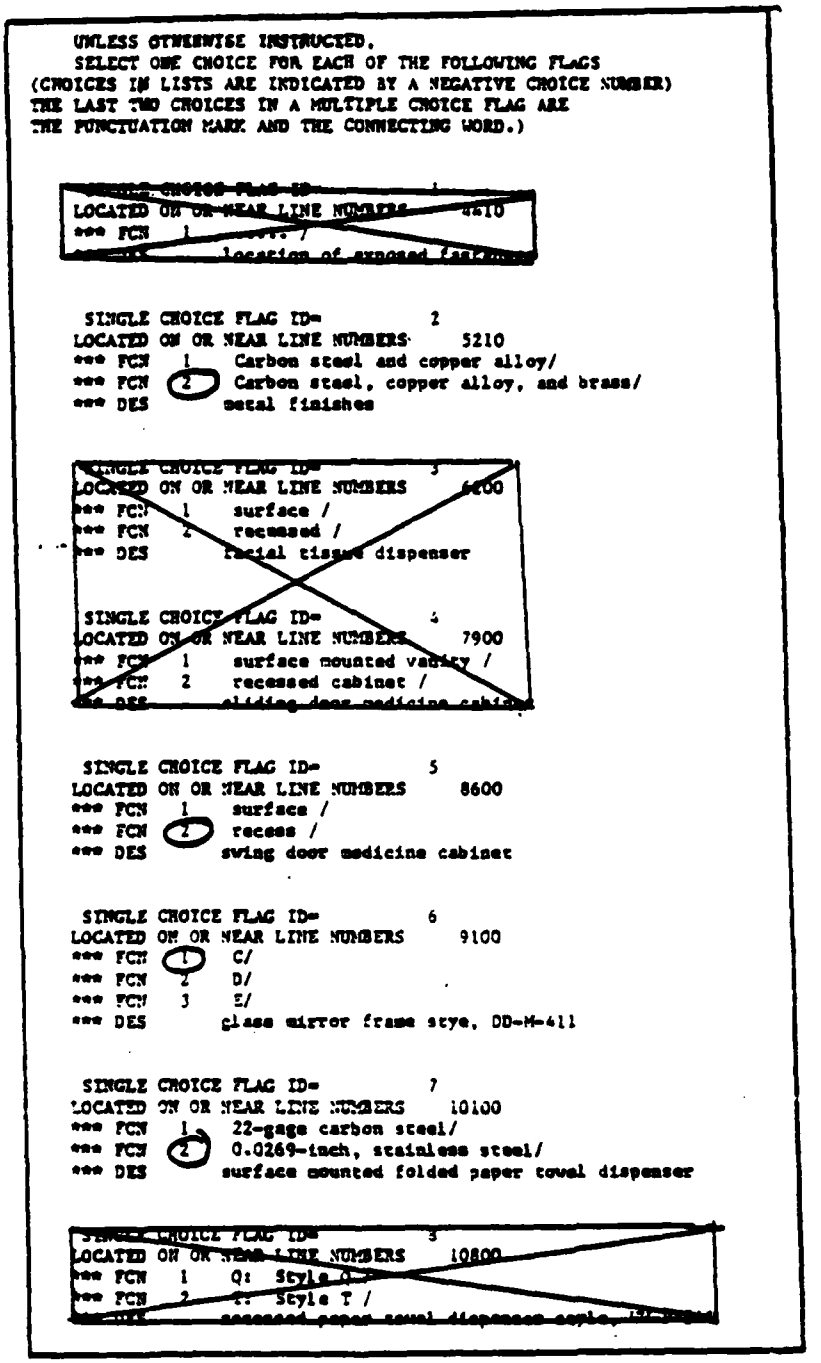
DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 17. Type: no
Return

```
TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'

          ************************************************************
          *****   THE CONNECT TIME IS LISTED AS SESSION ON    *****
          *****   THE ABOVE LINE. THE CONNECT TIME CHARGE     *****
          *****            IS 13 CENTS/MINUTE                 *****
          ************************************************************
          TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
          EXECUTION WAS DURING NORMAL WORKING DAY
          THE CPU TIME IN HUNDREDTHS OF SECONDS:  'CPU TIME'
          THE EXCP COUNT (IO):  'EXCP COUNT'
          THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS:  'COST'
          'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
          LAST STEP COMPLETION CODE WAS USER   000

          Session Complete
```

3. SUMMARY.

The number and type of commands an operator would use in preparing a project specification section would vary according to the mark-up of the draft specification. Other features, not shown in the example, may be utilized (Reference User Manual).



UNLESS OTHERWISE INSTRUCTED,
SELECT ONE CHOICE FOR EACH OF THE FOLLOWING FLAGS
(CHOICES IN LISTS ARE INDICATED BY A NEGATIVE CHOICE NUMBER)
THE LAST TWO CHOICES IN A MULTIPLE CHOICE FLAG ARE
THE PUNCTUATION MARK AND THE CONNECTING WORD.)

[illegible]
LOCATED ON OR NEAR LINE NUMBERS 4610
*** FCN 1 [illegible]
*** DES location of exposed fasteners

SINGLE CHOICE FLAG ID= 2
LOCATED ON OR NEAR LINE NUMBERS 5210
*** FCN 1 Carbon steel and copper alloy/
*** FCN 2 Carbon steel, copper alloy, and brass/
*** DES metal finishes

[illegible]
LOCATED ON OR NEAR LINE NUMBERS 6600
*** FCN 1 surface /
*** FCN 2 recessed /
*** DES facial tissue dispenser

SINGLE CHOICE FLAG ID= 4
LOCATED ON OR NEAR LINE NUMBERS 7900
*** FCN 1 surface mounted vanity /
*** FCN 2 recessed cabinet /
*** DES sliding door medicine cabinet

SINGLE CHOICE FLAG ID= 5
LOCATED ON OR NEAR LINE NUMBERS 8600
*** FCN 1 surface /
*** FCN 2 recess /
*** DES swing door medicine cabinet

SINGLE CHOICE FLAG ID= 6
LOCATED ON OR NEAR LINE NUMBERS 9100
*** FCN 1 C/
*** FCN 2 D/
*** FCN 3 E/
*** DES glass mirror frame stye, DD-M-411

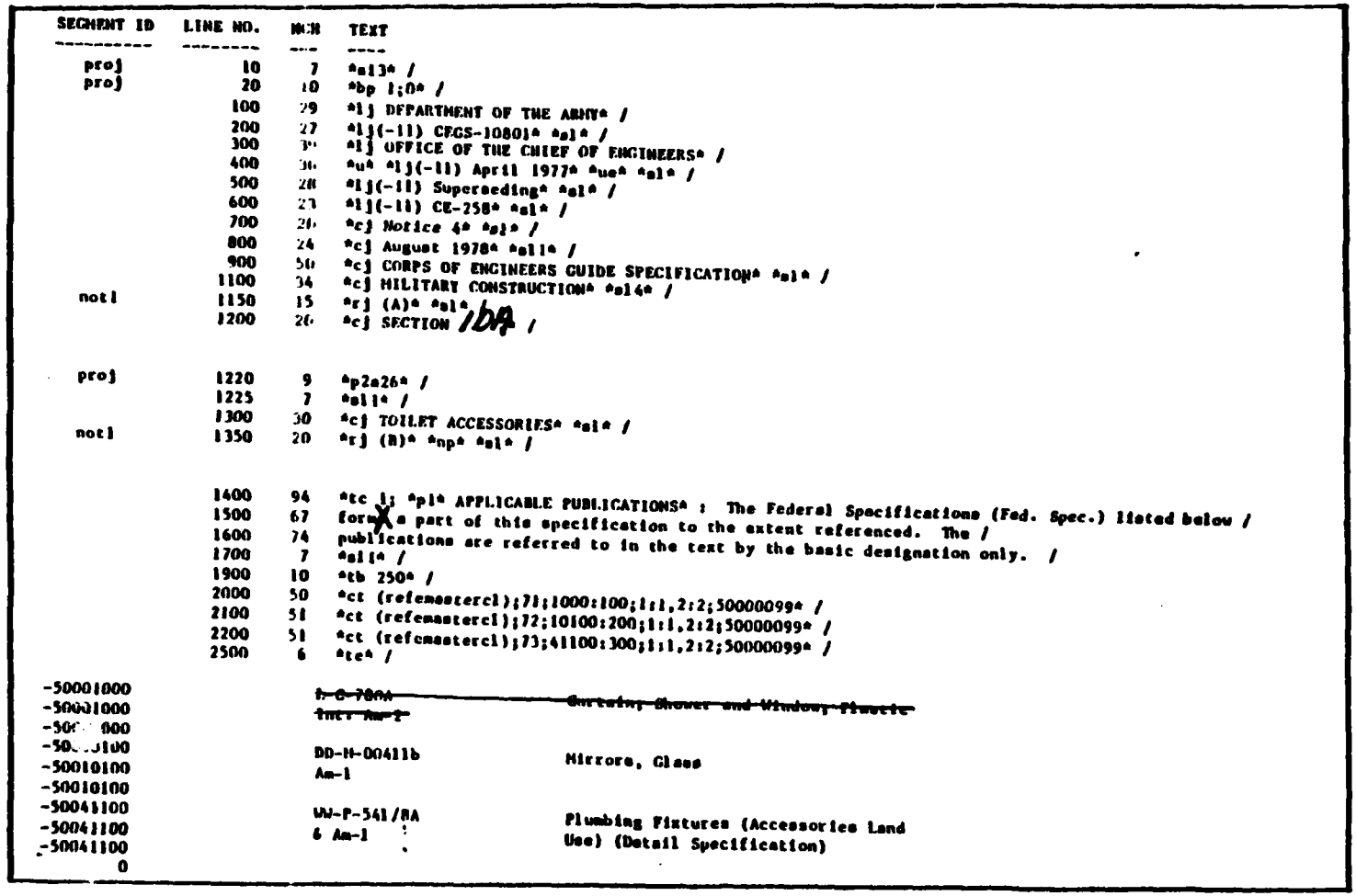
SINGLE CHOICE FLAG ID= 7
LOCATED ON OR NEAR LINE NUMBERS 10100
*** FCN 1 22-gage carbon steel/
*** FCN 2 0.0269-inch, stainless steel/
*** DES surface mounted folded paper towel dispenser

[illegible]
LOCATED ON OR NEAR LINE NUMBERS 10800
*** FCN 1 Q: Style Q /
*** FCN 2 T: Style T /
*** DES recessed paper towel dispenser style [illegible]

Figure 7.1. Flag Table

```
 SINGLE CHOICE FLAG ID=          9
LOCATED ON OR NEAR LINE NUMBERS     11300
*** FCN   1     single /
*** FCN   2     dual /
*** DES         robe hook pins


 SINGLE CHOICE FLAG ID=         10
LOCATED ON OR NEAR LINE NUMBERS     12100
*** FCN   1     surface/
*** FCN   2     recessed/
*** DES         sanitary napkin and tampon dispenser


 SINGLE CHOICE FLAG ID=         11
LOCATED ON OR NEAR LINE NUMBERS     12500
*** FCN   1     22 napkins/
*** FCN   2     30 napkins/
*** FCN   3     15 napkins or 20 tampons/
*** FCN   4     15 napkins and 22 tampons/
*** FCN   5     15 napkins and 50 tampons/
*** FCN   6     20 napkins and 20 tampons/
*** FCN   7     30 napkins and 27 tampons/
*** DES         sanitary napkin and tampon dispenser capacity


 SINGLE CHOICE FLAG ID=         12
LOCATED ON OR NEAR LINE NUMBERS     12600
*** FCN   1     complimentary /
*** FCN   2     10-cent coin /
*** DES         sanitary napkin and tampon dispenser operation


 SINGLE CHOICE FLAG ID=         13
LOCATED ON OR NEAR LINE NUMBERS     13300
*** FCN   1     straight /
*** FCN   2     bent as required /
*** DES         shower curtain rail


 SINGLE CHOICE FLAG ID=         14
LOCATED ON OR NEAR LINE NUMBERS     17000
*** FCN   1     A, stainless steel/
*** FCN   2     K, copper alloy/
*** DES         toilet tissue dispenser style, WW-P-541


 SINGLE CHOICE FLAG ID=         15
LOCATED ON OR NEAR LINE NUMBERS     17700
*** FCN   1     recessed /
*** FCN   2     surface /
*** DES         waste receptacle mounting


 SINGLE CHOICE FLAG ID=         16
LOCATED ON OR NEAR LINE NUMBERS     18000
*** FCN   1     .... /
*** DES         waste receptacle capacity

END OF FLAG TABLE
```

Figure 7.1. Flag Table (Cont)



| SEGMENT ID | LINE NO. | NCH | TEXT |
|---|---|---|---|
| proj | 10 | 7 | ^sl3^ / |
| proj | 20 | 10 | ^bp 1;0^ / |
| | 100 | 29 | ^lj DEPARTMENT OF THE ARMY^ / |
| | 200 | 27 | ^lj(-11) CEGS-10801^ ^sl^ / |
| | 300 | 3[illegible] | ^lj OFFICE OF THE CHIEF OF ENGINEERS^ / |
| | 400 | 36 | ^u^ ^lj(-11) April 1977^ ^ue^ ^sl^ / |
| | 500 | 28 | ^lj(-11) Superseding^ ^sl^ / |
| | 600 | 23 | ^lj(-11) CE-258^ ^sl^ / |
| | 700 | 20 | ^cj Notice 4^ ^sj^ / |
| | 800 | 24 | ^cj August 1978^ ^sll^ / |
| | 900 | 50 | ^cj CORPS OF ENGINEERS GUIDE SPECIFICATION^ ^sl^ / |
| | 1100 | 34 | ^cj MILITARY CONSTRUCTION^ ^sl4^ / |
| notl | 1150 | 15 | ^rj (A)^ ^sl^ / |
| | 1200 | 20 | ^cj SECTION 10A / |
| proj | 1220 | 9 | ^p2a26^ / |
| | 1225 | 7 | ^sll^ / |
| | 1300 | 30 | ^cj TOILET ACCESSORIES^ ^sl^ / |
| notl | 1350 | 20 | ^rj (B)^ ^np^ ^sl^ / |
| | 1400 | 94 | ^tc j; ^pl^ APPLICABLE PUBLICATIONS^ : The Federal Specifications (Fed. Spec.) listed below / |
| | 1500 | 67 | form a part of this specification to the extent referenced. The / |
| | 1600 | 74 | publications are referred to in the text by the basic designation only. / |
| | 1700 | 7 | ^sll^ / |
| | 1900 | 10 | ^tb 250^ / |
| | 2000 | 50 | ^ct (refemastercl);71;1000:100;1:1,2:2;50000099^ / |
| | 2100 | 51 | ^ct (refemastercl);72;10100:200;1:1,2:2;50000099^ / |
| | 2200 | 51 | ^ct (refemastercl);73;41100:300;1:1,2:2;50000099^ / |
| | 2500 | 6 | ^te^ / |
| -50001000 | | | ~~FF-C-780A~~ ~~Curtain, Shower and Window, Plastic~~ |
| -50001000 | | | ~~Inch - Am-2~~ |
| -50[illegible]000 | | | |
| -50[illegible]100 | | | DD-M-00411b Mirrors, Glass |
| -50010100 | | | Am-1 |
| -50010100 | | | |
| -50041100 | | | UU-P-541/8A Plumbing Fixtures (Accessories Land |
| -50041100 | | | & Am-1 Use) (Detail Specification) |
| -50041100 | | | |
| 0 | | | |

Figure 7.2. Working Copy of Guide Specification.

```
          2600   70   *tc 1; *pi* GENERAL* :  Toilet accessories as specified herein shall /
          2700   59   be provided in accordance with the SCHEDULE hereinafter.  /
          2800   81   Porcelain type, tile-wall accessories are specified in SECTION:  CERAMIC TILE.  /
          3000  111   Each accessory item shall be complete with the necessary mounting plates, anchors, and fasteners.
                      Concealed /
          3100   74   mounting plates shall be of sturdy construction with corrosion resistant /
          3200   11   surface.  /
not1      3250   26   *sl1* *rj (C)* *np* *sl* /


          3300   50   *tc 1; *pi* SAMPLES AND DESCRIPTIVE DATA* :  One /
          3400   77   sample of each accessory proposed for use shall be submitted for approval.  /
          3500   74   Samples shall be accompanied by descriptive data indicating materials of /
          3600   78   construction, fasteners proposed for use for each type of wall construction, /
          3700   78   recommended mounting locations, and mounting instructions.  Approved samples /
          3800   77   may be incorporated into the finished work provided they are identified and /
          3900   25   their locations noted.  /
not2      3910   21   *co ;3;21400-21500* /

-21400                C.  Paragraph 3:  Project drawings should
-21500                indicate mounting heights and location.

not1      3920   26   *sl1* *rj (D)* *np* *sl* /


          4000   57   *tc 1; *pi* ANCHORS AND FASTENERS * shall be capable of /
          4100   70   developing a restraining force commensurate with the strength of the /
          4200   67   accessory to be mounted and shall be well suited for use with the /
          4300   71   supporting construction.  Where exposed fasteners are permitted, they /
          4400   56   shall have oval heads and finish to match the accessory/
          4410   76   ~~; except exposed fasteners in *fli;$.....$* shall be of tamper proof design/~~
          4500    4   . /
not2      4510   21   *co ;4;21600-22600* /

-21600                D.  Paragraph 4:  Tamperproof fasteners will
-21700                be specified for accessories which have exposed
-21700                fasteners in areas used by neuropsychiatric patients or
-21800                prisoners and where theft or vandalism would be a
-21900                problem in areas used by the public.  Locations where
-22000                tamperproof fasteners are required will be inserted in
-22000                the blank space.  Although this guide specification
-22100                places the responsibility with the Contractor for
-22200                providing, subject to Government approval, fasteners
-22200                and anchors of the type, size and number required to
-22300                adequately secure the accessory items, specific
-22400                requirements for critical or unusual applications will
-22400                be specified.  When this is necessary, the
-22500                specifications may refer to details on the drawings, or
-22600                the specifications may be expanded to include the
-22600                necessary requirements.
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Figure 7.2. Working Copy of Guide Specification Continued.

```
not1        4520   26   ^sll^ ^rj (E)^ ^np^ ^sl^ /
            4530    5   ^b^ /


            4600   66   ^tc 1; ^pl^ FINISHES^ :  Finishes on metals shall be provided as /
            4700   10   follows: /
            4710    7   ^sll^ /
            4900   13   ^tb 108011^ /
            5000   39   ^th^ ^u^ Metal ^ue^ $ ^u^ Finish ^ue^ /
            5100   54   ^r^ Stainless steel $ No. 4 general-purpose polished /
            5200   36   ^r^ Aluminum $ Satin anodic, clear /
            5210   62   ^r^ ^fl2;/Carbon steel, copper alloy, and brass/^ $ Chromium /
            5220   16   plated, bright /
            5400    6   ^te^ /

  5100                   Metal                          Finish
  5100
  5100                   Stainless steel                No. 4 general-purpose polished
  5100
  5200                   Aluminum                       Satin anodic, clear
  5200
  5210                   {Carbon steel, copper          Chromium plated, bright
  5210                   alloy, and brass}
  5210
     0

            5500    6   ^bc^ /
not2        5510   21   ^co ;8;22700-23600^ /

-22700                  E.  Paragraphs 5 and 6:  In order to minimize
-22800                  the confusion of selecting the numerous options
-22800                  contained in Fed. Spec. WW-P-541/8A, only those
-22900                  accessories and finishes normally suitable for military
-23000                  construction were included in this guide specification.
-23100                  When other accessories and finishes are required to
-23100                  meet the needs of the project, the specifier should
-23200                  review the options included in Fed. Spec. WW-P-541/8A
-23300                  for inclusion.  When preparing the contract documents,
-23400                  the specifier should review the detail requirements of
-23400                  Fed. Spec. WW-P-541/8A to assure that correct
-23500                  selections have been included.  In areas of hard usage,
-23600                  maximum use should be made of recessed accessories.

not1        5520   28   ^sll^ ^rj (E,F)^ ^np^ ^sl^ /
```

Figure 7.2. Working Copy of Guide Specification Continued.

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            5600    63  ^tc 1; ^p1^ ACCESSORY ITEMS ^ shall conform to the respective /
            5700    57  specifications and other requirements specified below.  /
not2        5710    21  ^co ;9;22700-23600^ /

-22700                      E.  Paragraphs 5 and 6:  In order to minimize
-22800                      the confusion of selecting the numerous options
-22800                      contained in Fed. Spec. WW-P-541/8A, only those
-22900                      accessories and finishes normally suitable for military
-23000                      construction were included in this guide specification.
-23100                      When other accessories and finishes are required to
-23100                      meet the needs of the project, the specifier should
-23200                      review the options included in Fed. Spec. WW-P-541/8A
-23300                      for inclusion.  When preparing the contract documents,
-23400                      the specifier should review the detail requirements of
-23400                      Fed. Spec. WW-P-541/8A to assure that correct
-23500                      selections have been included.  In areas of hard usage,
-23600                      maximum use should be made of recessed accessories.

not2        5720    19  ^ct ;100;;;24300^ /

-24400                              CH      Hooks will be located out of the way of
-24400                                      traffic and at an elevation that will
-24400                                      minimize the possibility of head injury
-24400                                      from the hooks.  These hooks will be
-24400                                      mounted on an oak strip when used in
-24400                                      rough usage areas.
-24400
-24700                              FTD     Private bathrooms used by women.  Limit
-24700                                      to one per bathroom.
-24700
-24900                              GB      Bathrooms that will be used by people in
-24900                                      a weakened condition, such as in
-24900                                      hospitals.  Vertical grab bars should be
-24900                                      considered in private bathrooms where a
-24900                                      soap and grab bar combination (SGR or
-24900                                      SGS) accessory is not provided.  Forms
-24900                                      and lengths will be shown on the
-24900                                      drawings.
-24900
-25300                              MC      Private bathrooms where storage of
-25300                                      personal items in the bathroom is also
-25300                                      desirable.  Limit to one per bathroom.
-25300                                      Select Class 1 or Class 2.  When a
-25300                                      vanity cabinet is specified, a glass
-25300                                      mirror is required.
-25300
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Figure 7.2. Working Copy of Guide Specification (continued.

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-25600   MG      Private bathrooms where a medicine
-25600           cabinet is not provided, in general-use
-25600           toilets, and hand washing areas. Mirror
-25600           is 18 inches by 30 inches. Mirrors
-25600           larger than 18 inches by 30 inches will
-25600           be specified in SECTION: GLASS AND
-25600           GLAZING. Limit to not more than one per
-25600           lavatory. Adjustable tilt table mirror
-25600           will be provided in areas to be used by
-25600           wheelchair handicapped.
-25600
-26200   MM      Areas used by neuropsychiatric patients
-26200           or prisoners and where vandalism would
-26200           be a problem in areas used by the
-26200           public. Limit to one per lavatory.
-26200
  5000   PTD     Public toilets and toilets in
  5000           nondomiciliary type buildings in
  5000           accordance with the requirements of the
  5000           using service. Limit to not more than
  5000           one for two lavatories, except one per
  5000           toilet in single lavatory installation.
  5000
-26900   RH      Bathrooms with bathtubs or shower.
-26900           Limit to two per shower or bathtub.
-26900           These hooks will be mounted on an oak
-26900           strip when used in rough usage areas.
-26900
-27200   SND     Public toilets and toilets in
-27200           nondomiciliary type buildings used by
-27200           women. Disposal will be mounted in the
-27200           toilet partition and serving two toilet
-27200           compartments. Such toilet compartment
-27200           shall be accessible to a disposal unit.
-27200
-27600   SNTD    Public toilets and toilets in
-27600           nondomiciliary type buildings used by
-27600           women. Use of recessed units will be
-27600           considered for installations which are
-27600           required to present an excellent
-27600           appearance. Limit to one per toilet.
-27600
-28000   SC &    Installations with combination bathtub
-28000   SCR     and shower or individual shower, except
-28000           where metal-cabinet shower units which
-28000           include rails and curtains are used.
-28000           One per shower-tub installation and one
-28000           per individual shower installation.
-28000
```
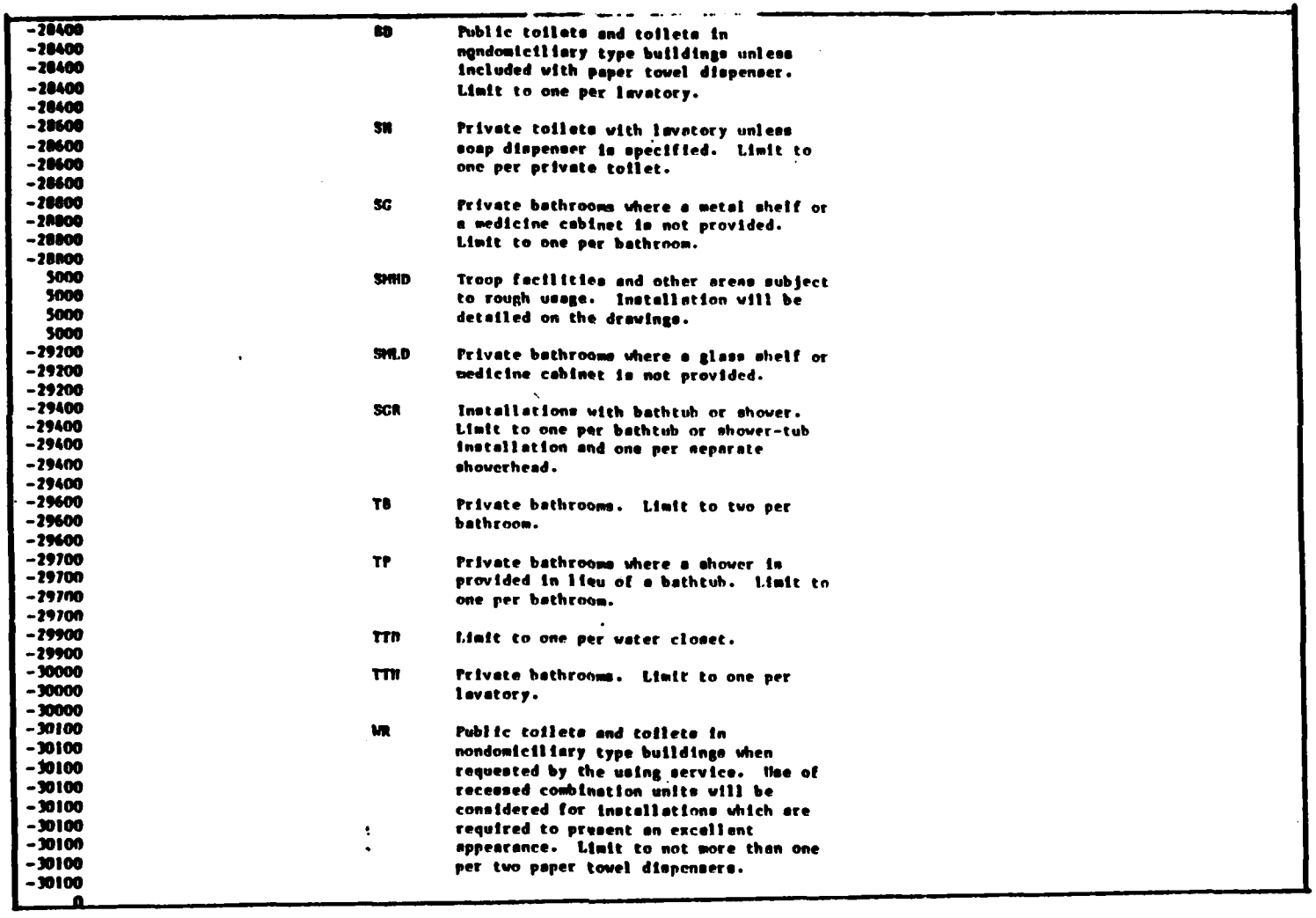
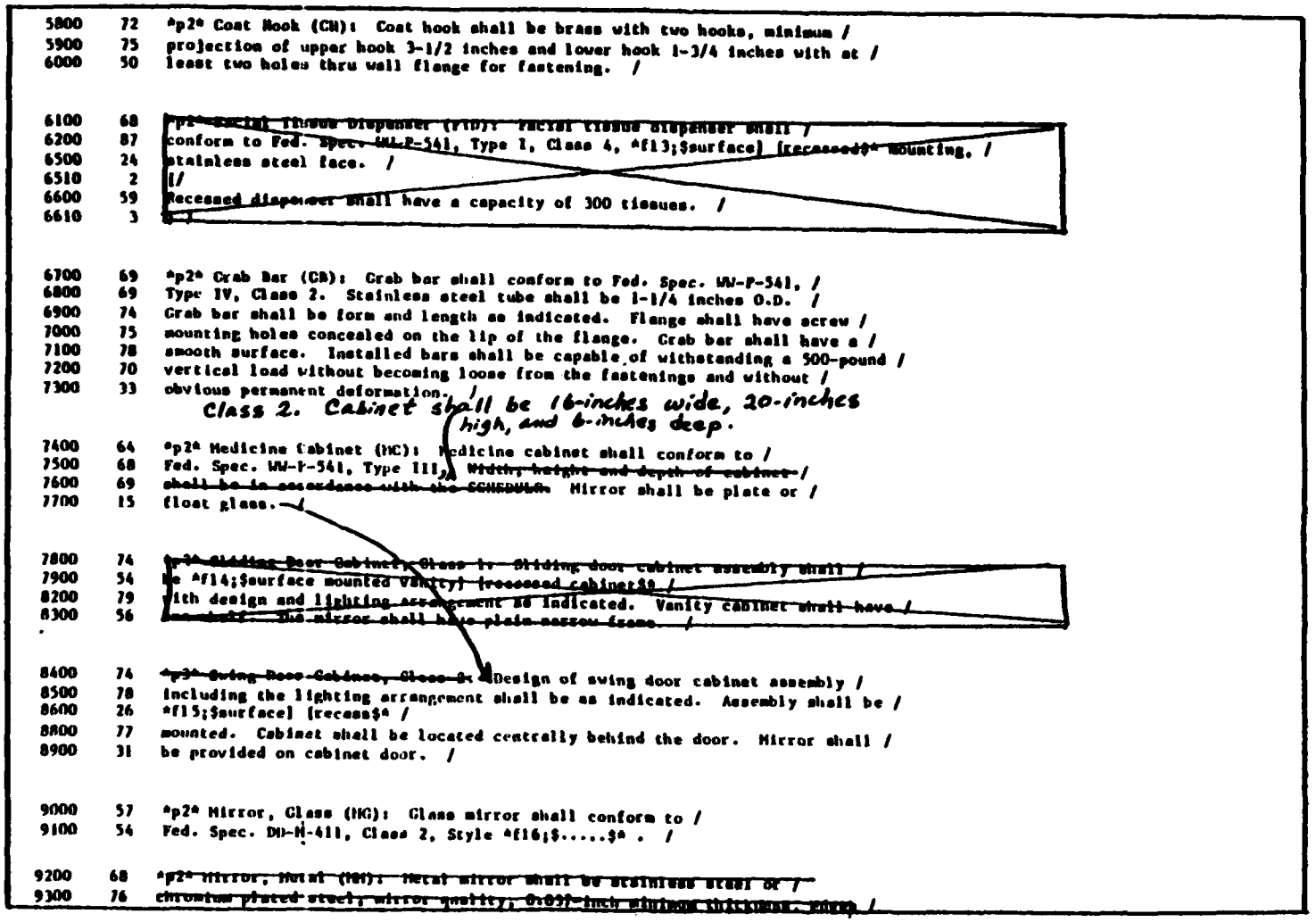

Figure 7.2. Working Copy of Guide Specification Continued.



| | | |
|---|---|---|
| -28400 | BD | Public toilets and toilets in |
| -28400 | | nondomiciliary type buildings unless |
| -28400 | | included with paper towel dispenser. |
| -28400 | | Limit to one per lavatory. |
| -28400 | | |
| -28600 | SH | Private toilets with lavatory unless |
| -28600 | | soap dispenser is specified. Limit to |
| -28600 | | one per private toilet. |
| -28600 | | |
| -28800 | SG | Private bathrooms where a metal shelf or |
| -28800 | | a medicine cabinet is not provided. |
| -28800 | | Limit to one per bathroom. |
| -28800 | | |
| 5000 | SHHD | Troop facilities and other areas subject |
| 5000 | | to rough usage. Installation will be |
| 5000 | | detailed on the drawings. |
| 5000 | | |
| -29200 | SHLD | Private bathrooms where a glass shelf or |
| -29200 | | medicine cabinet is not provided. |
| -29200 | | |
| -29400 | SGR | Installations with bathtub or shower. |
| -29400 | | Limit to one per bathtub or shower-tub |
| -29400 | | installation and one per separate |
| -29400 | | showerhead. |
| -29400 | | |
| -29600 | TB | Private bathrooms. Limit to two per |
| -29600 | | bathroom. |
| -29600 | | |
| -29700 | TP | Private bathrooms where a shower is |
| -29700 | | provided in lieu of a bathtub. Limit to |
| -29700 | | one per bathroom. |
| -29700 | | |
| -29900 | TTD | Limit to one per water closet. |
| -29900 | | |
| -30000 | TTH | Private bathrooms. Limit to one per |
| -30000 | | lavatory. |
| -30000 | | |
| -30100 | WR | Public toilets and toilets in |
| -30100 | | nondomiciliary type buildings when |
| -30100 | | requested by the using service. Use of |
| -30100 | | recessed combination units will be |
| -30100 | | considered for installations which are |
| -30100 | | required to present an excellent |
| -30100 | | appearance. Limit to not more than one |
| -30100 | | per two paper towel dispensers. |
| -30100 | | |



Figure 7.2. Working Copy of Guide Specification Continued.



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5800    72  ^p2^ Coat Hook (CH):  Coat hook shall be brass with two hooks, minimum /
5900    75  projection of upper hook 3-1/2 inches and lower hook 1-3/4 inches with at /
6000    50  least two holes thru wall flange for fastening.  /

6100    68  ^p2^ Facial Tissue Dispenser (FTD):  Facial tissue dispenser shall /
6200    87  conform to Fed. Spec. WW-P-541, Type I, Class 4, ^f13;$surface] [recessed$^ mounting. /
6500    24  stainless steel face.  /
6510     2  [/
6600    59  Recessed dispenser shall have a capacity of 300 tissues.  /
6610     3  ]/

6700    69  ^p2^ Grab Bar (GB):  Grab bar shall conform to Fed. Spec. WW-P-541, /
6800    69  Type IV, Class 2.  Stainless steel tube shall be 1-1/4 inches O.D.  /
6900    74  Grab bar shall be form and length as indicated.  Flange shall have screw /
7000    75  mounting holes concealed on the lip of the flange.  Grab bar shall have a /
7100    78  smooth surface.  Installed bars shall be capable of withstanding a 500-pound /
7200    70  vertical load without becoming loose from the fastenings and without /
7300    33  obvious permanent deformation.  /
            Class 2. Cabinet shall be 16-inches wide, 20-inches
                high, and 6-inches deep.
7400    64  ^p2^ Medicine Cabinet (MC):  Medicine cabinet shall conform to /
7500    68  Fed. Spec. WW-P-541, Type III, [Width, height and depth of cabinet] /
7600    69  shall be in accordance with the SCHEDULE.  Mirror shall be plate or /
7700    15  float glass.  /

7800    74  ^p3^ Sliding Door Cabinet, Class 1:  Sliding door cabinet assembly shall /
7900    54  be ^f14;$surface mounted Vanity] [recessed cabinet$^ /
8200    79  with design and lighting arrangement as indicated.  Vanity cabinet shall have /
8300    56  [one-door.  The mirror shall have plain narrow frame.  /

8400    74  ^p3^ Swing Door Cabinet, Class 2:  [Design of swing door cabinet assembly /
8500    78  including the lighting arrangement shall be as indicated.  Assembly shall be /
8600    26  ^f15;$surface] [recess$^ /
8800    77  mounted.  Cabinet shall be located centrally behind the door.  Mirror shall /
8900    31  be provided on cabinet door.  /

9000    57  ^p2^ Mirror, Glass (MG):  Glass mirror shall conform to /
9100    54  Fed. Spec. DD-M-411, Class 2, Style ^f16;$.....$^ .  /

9200    68  ^p2^ Mirror, Metal (MM):  Metal mirror shall be stainless steel or /
9300    76  chromium plated steel, mirror quality, 0.039-inch minimum thickness.  Edges /
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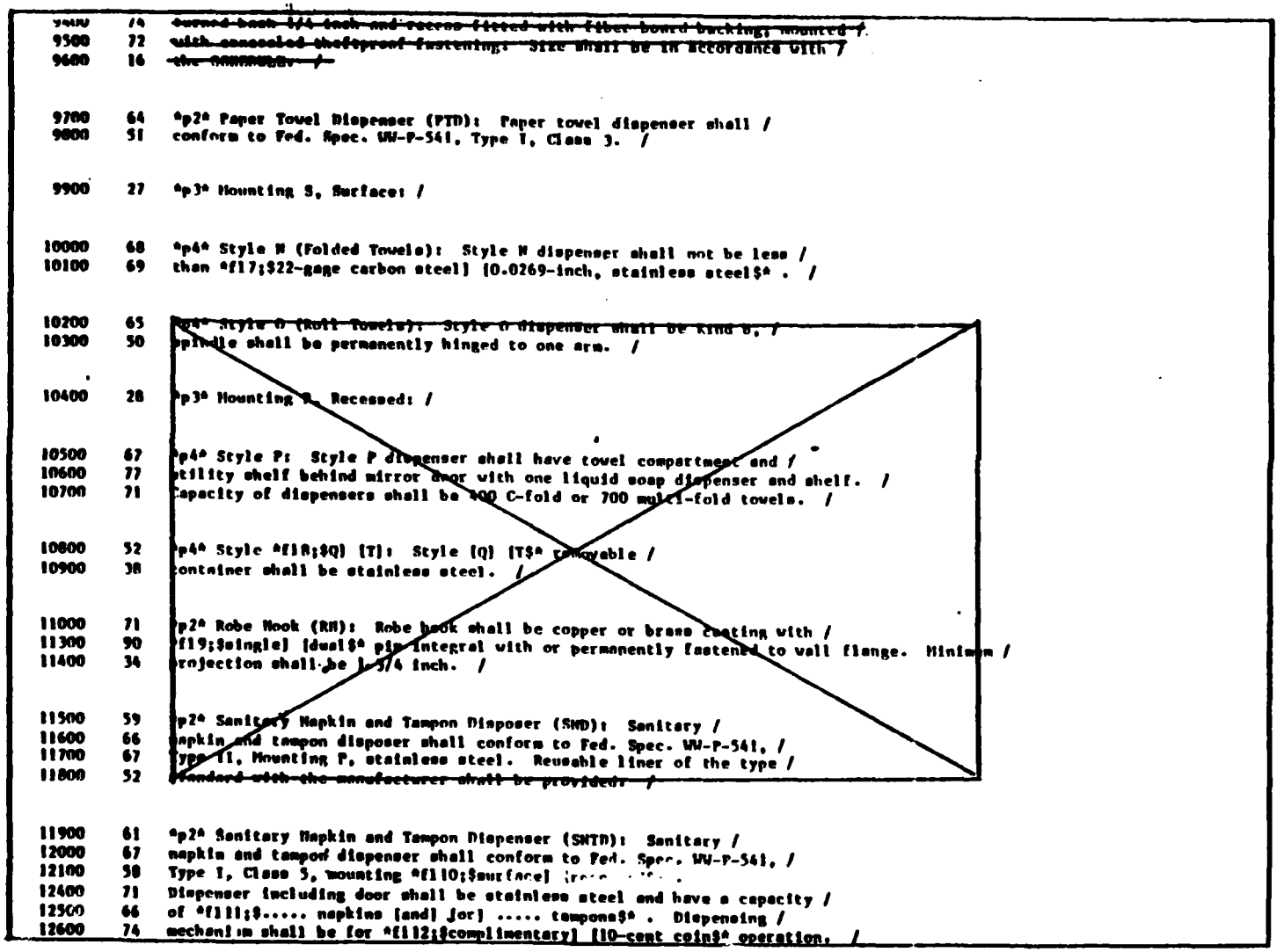
Figure 7.2. Working Copy of Guide Specification Continued.



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9400    74  ~~Curved back 1/4 inch and recess fitted with fiber board backing; mounted /~~
9500    72  ~~with concealed shelfproof fastening.  Size shall be in accordance with /~~
9600    16  ~~the manufacturer's /~~

9700    64  ^p2^ Paper Towel Dispenser (PTD):  Paper towel dispenser shall /
9800    51  conform to Fed. Spec. WW-P-541, Type I, Class 3.  /

9900    27  ^p3^ Mounting S, Surface: /

10000   68  ^p4^ Style N (Folded Towels):  Style N dispenser shall not be less /
10100   69  than ^f17;$22-gage carbon steel] [0.0269-inch, stainless steel$^ .  /

10200   65  ^p4^ Style O (Roll Towels):  Style O dispenser shall be kind O, /
10300   50  spindle shall be permanently hinged to one arm.  /

10400   28  ^p3^ Mounting R, Recessed: /

10500   67  ^p4^ Style P:  Style P dispenser shall have towel compartment and /
10600   77  utility shelf behind mirror door with one liquid soap dispenser and shelf.  /
10700   71  Capacity of dispensers shall be 400 C-fold or 700 multi-fold towels.  /

10800   52  ^p4^ Style ^f18;$Q] [T]:  Style [Q] [T$^ removable /
10900   38  container shall be stainless steel.  /

11000   71  ^p2^ Robe Hook (RH):  Robe hook shall be copper or brass casting with /
11300   90  ^f19;$single] [dual$^ pin integral with or permanently fastened to wall flange.  Minimum /
11400   34  projection shall be 1 3/4 inch.  /

11500   59  ^p2^ Sanitary Napkin and Tampon Disposer (SND):  Sanitary /
11600   66  napkin and tampon disposer shall conform to Fed. Spec. WW-P-541, /
11700   67  Type II, Mounting F, stainless steel.  Reusable liner of the type /
11800   52  ~~standard with the manufacturer shall be provided.  /~~

11900   61  ^p2^ Sanitary Napkin and Tampon Dispenser (SNTD):  Sanitary /
12000   67  napkin and tampon dispenser shall conform to Fed. Spec. WW-P-541, /
12100   58  Type I, Class 5, mounting ^f110;$surface] [recessed$^ .
12400   71  Dispenser including door shall be stainless steel and have a capacity /
12500   66  of ^f111;$..... napkins [and] [or] ..... tampons$^ .  Dispensing /
12600   74  mechanism shall be for ^f112;$complimentary] [10-cent coin$^ operation.  /
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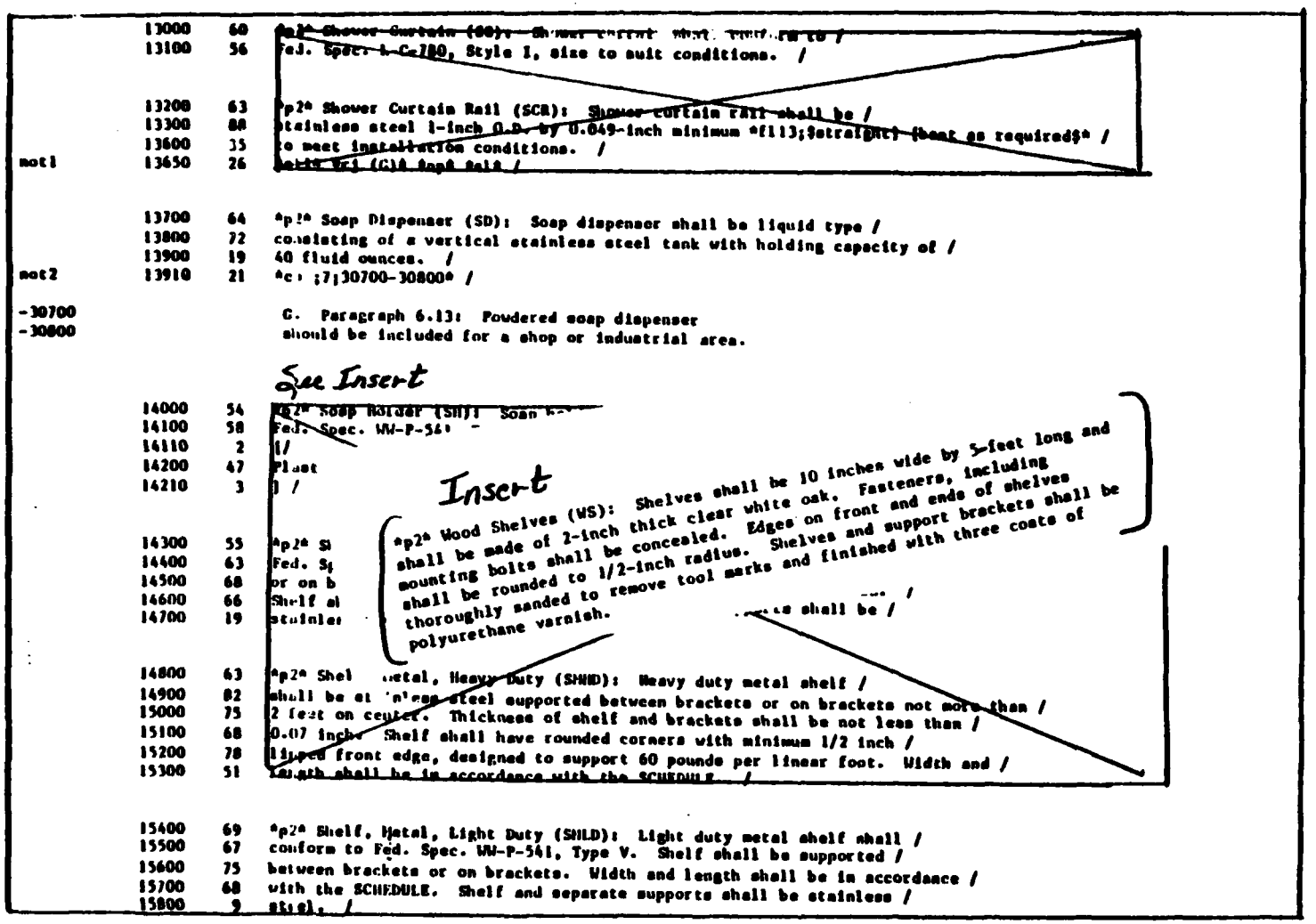
Figure 7.2. Working Copy of Guide Specification Continued.

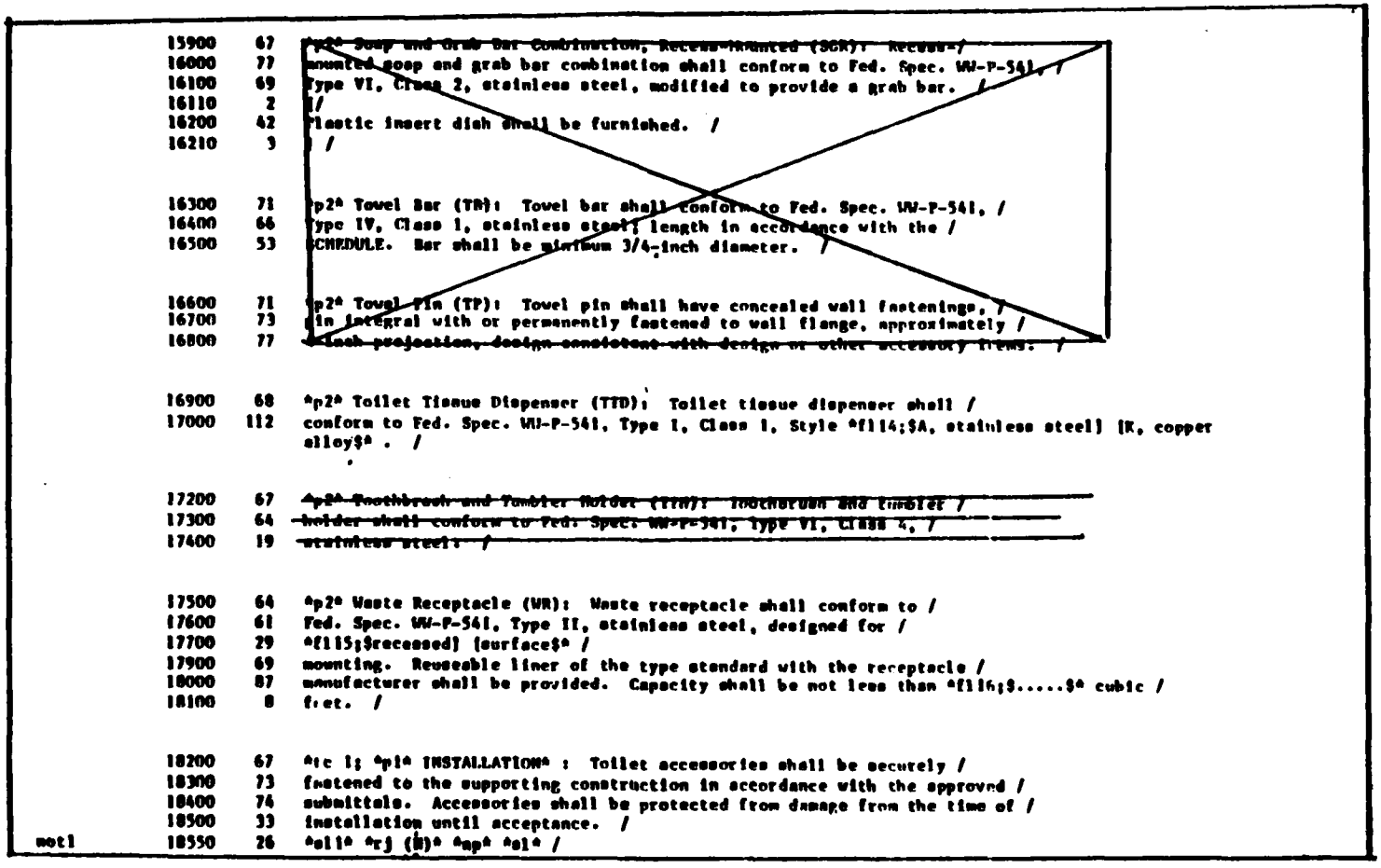


| | | | |
|---|---|---|---|
| | 13000 | 60 | ~~*p2* Shower Curtain (SC): Shower curtain shall conform to /~~ |
| | 13100 | 56 | ~~Fed. Spec. L-C-780, Style I, size to suit conditions. /~~ |
| | 13200 | 63 | ~~*p2* Shower Curtain Rail (SCR): Shower curtain rail shall be /~~ |
| | 13300 | 88 | ~~stainless steel 1-inch O.D. by 0.049-inch minimum *f113;$straight} {bent as required$* /~~ |
| | 13600 | 35 | ~~to meet installation conditions. /~~ |
| not1 | 13650 | 26 | ~~[illegible] (G)$ [illegible] /~~ |
| | 13700 | 64 | *p2* Soap Dispenser (SD): Soap dispenser shall be liquid type / |
| | 13800 | 72 | consisting of a vertical stainless steel tank with holding capacity of / |
| | 13900 | 19 | 40 fluid ounces. / |
| not2 | 13910 | 21 | *c ;7;30700-30800* / |
| -30700 | | | G. Paragraph 6.13: Powdered soap dispenser |
| -30800 | | | should be included for a shop or industrial area. |
| | | | See Insert |
| | 14000 | 54 | ~~*p2* Soap Holder (SH): Soap [illegible]~~ |
| | 14100 | 58 | ~~Fed. Spec. WW-P-541 [illegible]~~ |
| | 14110 | 2 | [/ |
| | 14200 | 47 | Plast |
| | 14210 | 3 | ] / |
| | 14300 | 55 | *p2* Sh |
| | 14400 | 63 | Fed. Sp |
| | 14500 | 68 | or on b |
| | 14600 | 66 | Shelf sh |
| | 14700 | 19 | stainles |
| | 14800 | 63 | *p2* Shel metal, Heavy Duty (SHHD): Heavy duty metal shelf / |
| | 14900 | 82 | shall be st 'nless steel supported between brackets or on brackets not more than / |
| | 15000 | 75 | 2 feet on center. Thickness of shelf and brackets shall be not less than / |
| | 15100 | 68 | 0.07 inch. Shelf shall have rounded corners with minimum 1/2 inch / |
| | 15200 | 78 | lipped front edge, designed to support 60 pounds per linear foot. Width and / |
| | 15300 | 51 | length shall be in accordance with the SCHEDULE. / |
| | 15400 | 69 | *p2* Shelf, Metal, Light Duty (SHLD): Light duty metal shelf shall / |
| | 15500 | 67 | conform to Fed. Spec. WW-P-541, Type V. Shelf shall be supported / |
| | 15600 | 75 | between brackets or on brackets. Width and length shall be in accordance / |
| | 15700 | 68 | with the SCHEDULE. Shelf and separate supports shall be stainless / |
| | 15800 | 9 | steel. / |

Insert

*p2* Wood Shelves (WS): Shelves shall be 10 inches wide by 5-feet long and shall be made of 2-inch thick clear white oak. Fasteners, including mounting bolts shall be concealed. Edges on front and ends of shelves shall be rounded to 1/2-inch radius. Shelves and support brackets shall be thoroughly sanded to remove tool marks and finished with three coats of polyurethane varnish.

Figure 7.2. Working Copy of Guide Specification Continued.



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          15900    67   ^p2^ Soap and Grab Bar Combination, Recess-Mounted (SGR): Recess-/
          16000    77   mounted soap and grab bar combination shall conform to Fed. Spec. WW-P-541, /
          16100    69   Type VI, Class 2, stainless steel, modified to provide a grab bar.  /
          16110     2   /
          16200    42   Plastic insert dish shall be furnished.  /
          16210     3   /

          16300    71   ^p2^ Towel Bar (TB): Towel bar shall conform to Fed. Spec. WW-P-541, /
          16400    66   Type IV, Class 1, stainless steel; length in accordance with the /
          16500    53   SCHEDULE.  Bar shall be minimum 3/4-inch diameter.  /

          16600    71   ^p2^ Towel Pin (TP): Towel pin shall have concealed wall fastenings, /
          16700    73   pin integral with or permanently fastened to wall flange, approximately /
          16800    77   4-inch projection, design consistent with design of other accessory items.  /

          16900    68   ^p2^ Toilet Tissue Dispenser (TTD): Toilet tissue dispenser shall /
          17000   112   conform to Fed. Spec. WW-P-541, Type 1, Class 1, Style ^f114;$A, stainless steel] [R, copper
                         alloy$^ .  /

          17200    67   ^p2^ Toothbrush and Tumbler Holder (TTH): Toothbrush and tumbler /
          17300    64   holder shall conform to Fed. Spec. WW-P-541, Type VI, Class 4, /
          17400    19   stainless steel.  /

          17500    64   ^p2^ Waste Receptacle (WR): Waste receptacle shall conform to /
          17600    61   Fed. Spec. WW-P-541, Type II, stainless steel, designed for /
          17700    29   ^f115;$recessed] [surface$^ /
          17900    69   mounting.  Reuseable liner of the type standard with the receptacle /
          18000    87   manufacturer shall be provided.  Capacity shall be not less than ^f116;$.....$^ cubic /
          18100     8   feet.  /

          18200    67   ^tc 1; ^p1^ INSTALLATION^ :  Toilet accessories shall be securely /
          18300    73   fastened to the supporting construction in accordance with the approved /
          18400    74   submittals.  Accessories shall be protected from damage from the time of /
          18500    33   installation until acceptance.  /
mot1      18550    26   ^el1^ ^rj (R)^ ^ap^ ^el^ /
```

Figure 7.2. Working Copy of Guide Specification Continued.

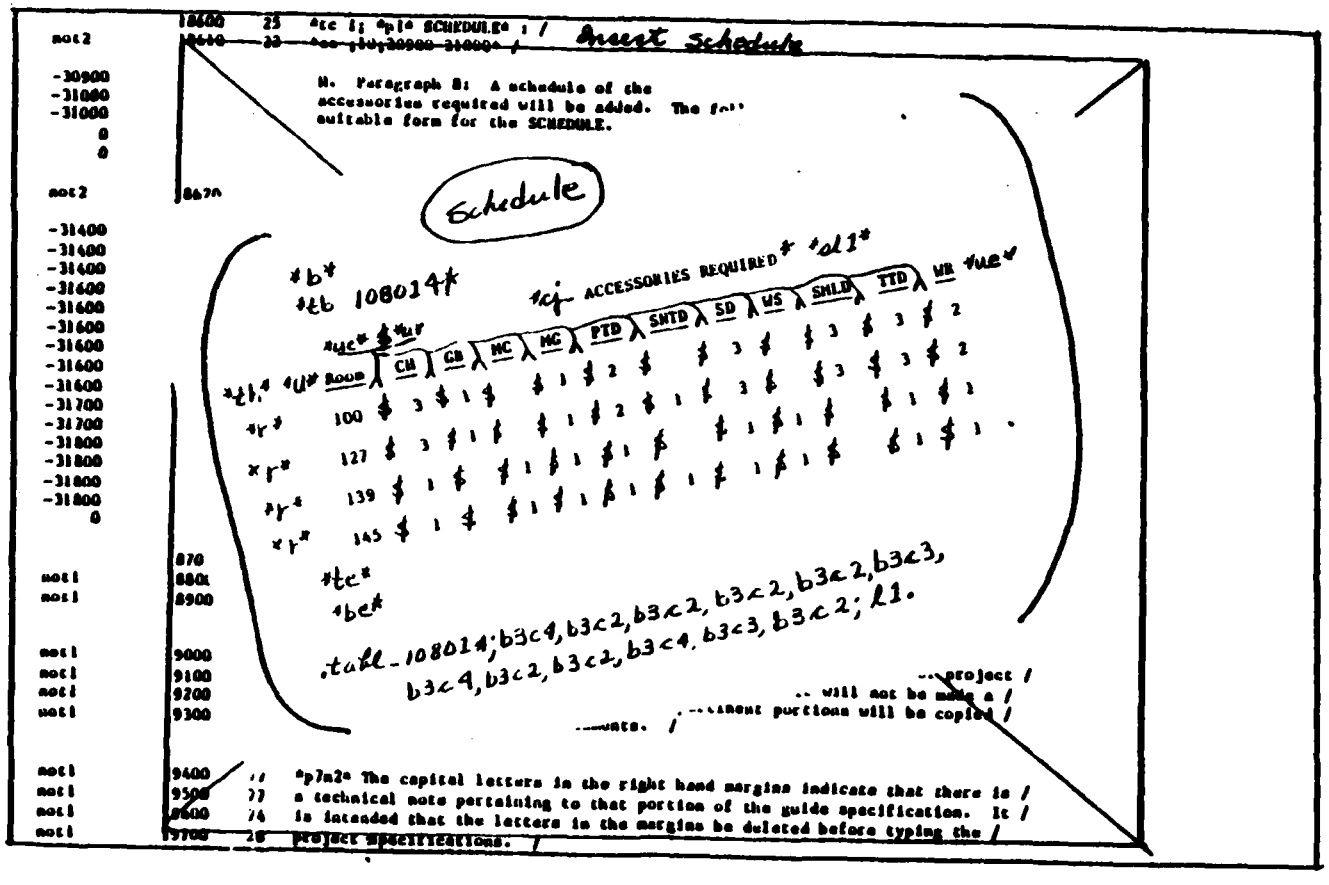


Figure 7.2. Working Copy of Guide Specification Continued.

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10      20      100     200     DEPARTMENT OF THE ARMY* /                                   CECS-10801
        200     300     400     OFFICE OF THE CHIEF OF ENGINEERS* /                         April 1977
                400     500     /                                                           Superseding
                500     600     /                                                           CE-258
                600     700     /                          Notice 4
                700     800     /                          August 1978

                800     900     /              CORPS OF ENGINEERS GUIDE SPECIFICATION
                900     1100    /                      MILITARY CONSTRUCTION



                1100    1150    /                                                                  (A)
                1150    1200    /                          SECTION 10A* /

                        1220                               SECTION 0A  /
                        1225    *sll*

                        1225    /
                        1300    *cj TOILET ACCESSORIES*
                        1300                          TOILET ACCESSORIES
                        1300    *sl*
                        1300    /
                        1350    *rj (B)*
                        1350                                                                  (B)
                        1350    *np*
                        1350    *sl*
                        1350    /
                        1400      1. APPLICABLE PUBLICATIONS:  The Federal Specifications (Fed. Spec.)
                1400    1500    listed below / form X a part of this specification to the extent referenced.
                1500    1600    The / publications are referred to in the text by the basic designation
                        1600    only.  /
                        1700    *sll*

                        1700    /
                        1900    *tb 250*
        2000-50000992-50001040        [illegible]                  [illegible]
                                      [illegible]                  /

        2100-50010096-50010112        DD-M-00411b                  Mirrors, Glass
                                      & Am-1                       /

        2200-50041088-50041200        WW-P-541/8A                  Plumbing Fixtures (Accessories, Land
                                      & Am-1                       Use) (Detail Specification)
                                                                   /

                2600    2700      2.  GENERAL:  Toilet accessories as specified herein shall / be provided
                2700    2800    in accordance with the SCHEDULE hereinafter.  / Porcelain type, tile-wall
                2800    3000    accessories are specified in SECTION:  CERAMIC TILE.  / Each accessory item
                        3000    shall be complete with the necessary mounting plates, anchors, and
                3000    3100    fasteners.  Concealed / mounting plates shall be of sturdy construction

                                1 -1
```

Figure 7.3. Working Copy of Guide Specification.
Print Option 2.



Preceding page blank

```
        3100    3200        with corrosion resistant / surface.  /
                3250        *all*

                3250        *rj (C)*
                3250                                                          (C)
                3250        *np*
                3250        *sl*
                3250        /
        3300    3400          3.  SAMPLES AND DESCRIPTIVE DATA:  One / sample of each accessory
        3400    3500        proposed for use shall be submitted for approval.  / Samples shall be
        3500    3600        accompanied by descriptive data indicating materials of / construction,
                3600        fasteners proposed for use for each type of wall construction, /
                3700        recommended mounting locations, and mounting instructions.  Approved
        3700    3800        samples / may be incorporated into the finished work provided they are
3800    3900    3910        identified and / their locations noted.  / /

               -21400                 C.  Paragraph 3:  Project drawings should
       -21400  -21500                 indicate mounting heights and / location.  /
                3920                  *all*

                3920                  *rj (D)*
                3920                                                          (D)
                3920                  *np*
                3920                  *sl*
                3920                  /
        4000    4100          4.  ANCHORS AND FASTENERS shall be capable of / developing a restraining
        4100    4200        force commensurate with the strength of the / accessory to be mounted and
        4200    4300        shall be well suited for use with the / supporting construction.  Where
        4300    4400        exposed fasteners are permitted, they / shall have oval heads and finish to
        4400    4410        match the accessory/ [redacted]
                4410        [redacted]
4410    4500    4510        [redacted]. / /

               -21600                 D.  Paragraph 4:  Tamperproof fasteners will
       -21600  -21700                 be specified for accessories / which have exposed
               -21700                 fasteners in areas used by neuropsychiatric patients or
       -21700  -21800                 / prisoners and where theft or vandalism would be a
       -21800  -21900                 problem in areas used by / the public.  Locations where
       -21900  -22000                 tamperproof fasteners are required will be / inserted
               -22000                 in the blank space.  Although this guide specification
       -22000  -22100                 places / the responsibility with the Contractor for
       -22100  -22200                 providing, subject to Government / approval, fasteners
               -22200                 and anchors of the type, size and number required to /
               -22300                 adequately secure the accessory items, specific
       -22300  -22400                 requirements for critical or / unusual applications
               -22400                 will be specified.  When this is necessary, the /
               -22500                 specifications may refer to details on the drawings, or
       -22500  -22600                 the specifications may / be expanded to include the
               -22600                 necessary requirements.  /
                4520                  *all*

                4520                  *rj (E)*
                4520                                                          (E)

                                    1 -2
```

Figure 7.3. Working Copy of Guide Specification Continued. Printout 2.

```
         4520                *np*
         4520                *sl*
         4520                /
         4530                *b*
         4530                /
 4600    4700          5.  FINISHES:  Finishes on metals shall be provided as / follows: /
         4710        *sll*

         4710        /
         4900        *tb 108011*
         5200                Metal                          Finish  /

                             Stainless steel                No. 4 general-purpose polished
                                                            /

         5210                Aluminum                       Satin anodic, clear /

 5220    5400                [Carbon steel, copper          Chromium / plated, bright /
                             alloy, and brass]

         5500        *be*
 5500    5510        / /

        -22700               E.  Paragraphs 5 and 6:  In order to minimize
-22700  -22800               the confusion of selecting / the numerous options
        -22800               contained in Fed. Spec. WW-P-541/8A, only those /
        -22900               accessories and finishes normally suitable for military
-22900  -23000               construction were / included in this guide
        -23000               specification.  When other accessories and finishes are
-23000  -23100               / required to meet the needs of the project, the
-23100  -23200               specifier should review the / options included in Fed.
-23200  -23300               Spec. WW-P-541/8A for inclusion.  When preparing / the
        -23300               contract documents, the specifier should review the
-23300  -23400               detail requirements / of Fed. Spec. WW-P-541/8A to
-23400  -23500               assure that correct selections have been / included.
        -23500               In areas of hard usage, maximum use should be made of
-23500  -23600               recessed / accessories.  /
         5520                *sll*

         5520                *rj (E,F)*
         5520                                                                    (E,F)
         5520                *np*
         5520                *sl*
         5520                /
 5600    5700          6.  ACCESSORY ITEMS shall conform to the respective / specifications and
 5700    5710        other requirements specified below.  / /

        -22700               E.  Paragraphs 5 and 6:  In order to minimize
-22700  -22800               the confusion of selecting / the numerous options
        -22800               contained in Fed. Spec. WW-P-541/8A, only those /
        -22900               accessories and finishes normally suitable for military
-22900  -23000               construction were / included in this guide
        -23000               specification.  When other accessories and finishes are

                        1 -3
```

Figure 7.3. Working Copy of Guide Specification Continued. Print Option 2.

| | | | | | |
|---|---|---|---|---|---|
| -26600 | -26700 | -26800 | -26900 | PTD | Public toilets and toilets in nondomiciliary type buildings / in accordance with the requirements of the using service. Limit to not / more than one for two lavatories, except one per toilet in single lavatory / installation. / |
| | -27000 | -27100 | -27200 | RR | Bathrooms with bathtubs or shower. Limit to two per shower / or bathtub. These hooks will be mounted on an oak strip when used in rough / usage areas. / |
| -27300 | -27400 | -27500 | -27600 | SND | Public toilets and toilets in nondomiciliary type buildings / used by women. Disposal will be mounted in the toilet partition and / serving two toilet compartments. Such toilet compartment shall be accessible / to a disposal unit. / |
| -27700 | -27800 | -27900 | -28000 | SNTD | Public toilets and toilets in nondomiciliary type / buildings used by women. Use of recessed units will be considered for / installations which are required to present an excellent appearance. Limit / to one per toilet. / |
| -28100 | -28200 | -28300 | -28400 | SC & SCR | Installations with combination bathtub and shower or / individual shower, except where metal-cabinet shower units which include / rails and curtains are used. One per shower-tub installation and one per / individual shower installation. / |
| | | -28500 | -28600 | SD | Public toilets and toilets in nondomiciliary type buildings / unless included with paper towel dispenser. Limit to one per lavatory. / |
| | | -28700 | -28800 | SH | Private toilets with lavatory unless soap dispenser is / specified. Limit to one per private toilet. / |
| | | -28900 | -29000 | SG | Private bathrooms where a metal shelf or a medicine cabinet / is not provided. Limit to one per bathroom. / |

1 -5

Figure 7.3. Working Copy of Guide Specification Continued. Print Option 2.

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | -29100 | -29200 | SHID | Troop facilities and other areas subject to rough usage. / Installation will be detailed on the drawings. / |
| | | | -29300 | -29400 | SHLD | Private bathrooms where a glass shelf or medicine / cabinet is not provided. / |
| | | | -29500 | -29600 | SGR | Installations with bathtub or shower. Limit to one per / bathtub or shower-tub installation and one per separate showerhead. / |
| | | | | -29700 | TB | Private bathrooms. Limit to two per bathroom. / |
| | | | -29800 | -29900 | TP | Private bathrooms where a shower is provided in lieu of a bathtub. / Limit to one per bathroom. / |
| | | | | -30000 | TTD | Limit to one per water closet. / |
| | | | | -30100 | TTH | Private bathrooms. Limit to one per lavatory. / |
| -30200 | -30300 | -30400 | -30500 | -30600 | WR | Public toilets and toilets in nondomiciliary type buildings / when requested by the using service. Use of recessed combination units / will be considered for installations which are required to present an / excellent appearance. Limit to not more than one per two paper towel / dispensers. / |

| | | | | | |
|---|---|---|---|---|---|
| | | | | 5800 | 6.1 Coat Hook (CH): Coat hook shall be brass with two hooks, minimum / |
| | | | | 5900 | projection of upper hook 3-1/2 inches and lower hook 1-3/4 inches with at / |
| | | | | 6000 | least two holes thru wall flange for fastening. / |
| | | | | 6100 | [illegible] |
| | | | | 6200 | conform to Fed. Spec. [illegible] Type I, Class [illegible] / |
| | | | | 6200 | [f13;$surface] [recessed$$ |
| | 6200 | 6500 | 6510 | 6600 | [illegible] steel face. / [/ Recessed dispenser shall [illegible] |
| | | | 6600 | 6610 | [illegible] / |
| | | | | 6700 | 6.3 Grab Bar (GB): Grab bar shall conform to Fed. Spec. WW-P-541, / |
| | | | 6800 | 6900 | Type IV, Class 2. Stainless steel tube shall be 1-1/4 inches O.D. / Grab |
| | | | | 6900 | bar shall be form and length as indicated. Flange shall have screw / |
| | | | | 7000 | mounting holes concealed on the lip of the flange. Grab bar shall have a / |
| | | | | 7100 | smooth surface. Installed bars shall be capable of withstanding a |
| | | | 7100 | 7200 | 500-pound / vertical load without becoming loose from the fastenings and |
| | | | 7200 | 7300 | without / obvious permanent deformation. / |

1 -6

Figure 7.3. Working Copy of Guide Specification Continued. Print[illegible]ion 2.

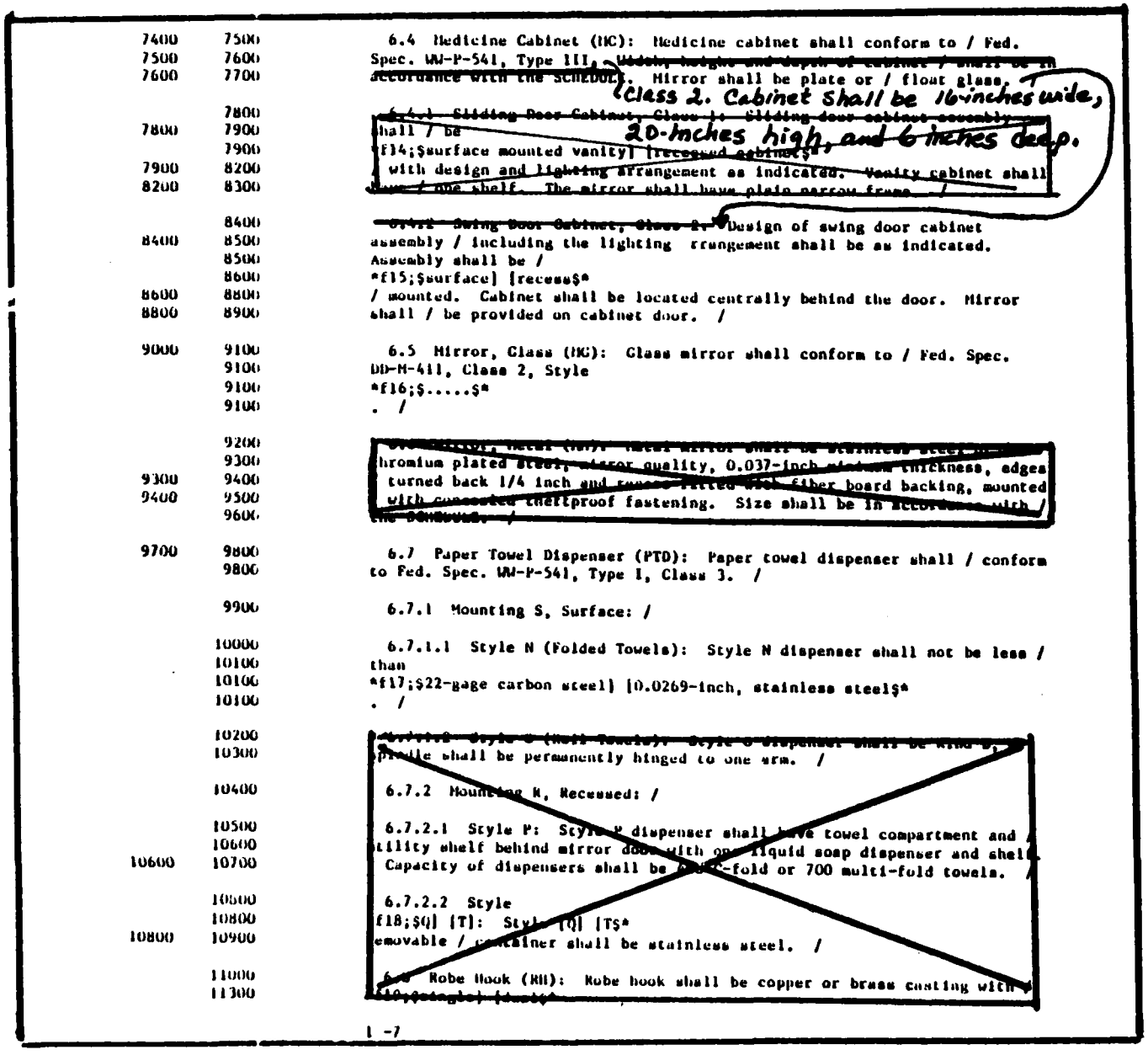
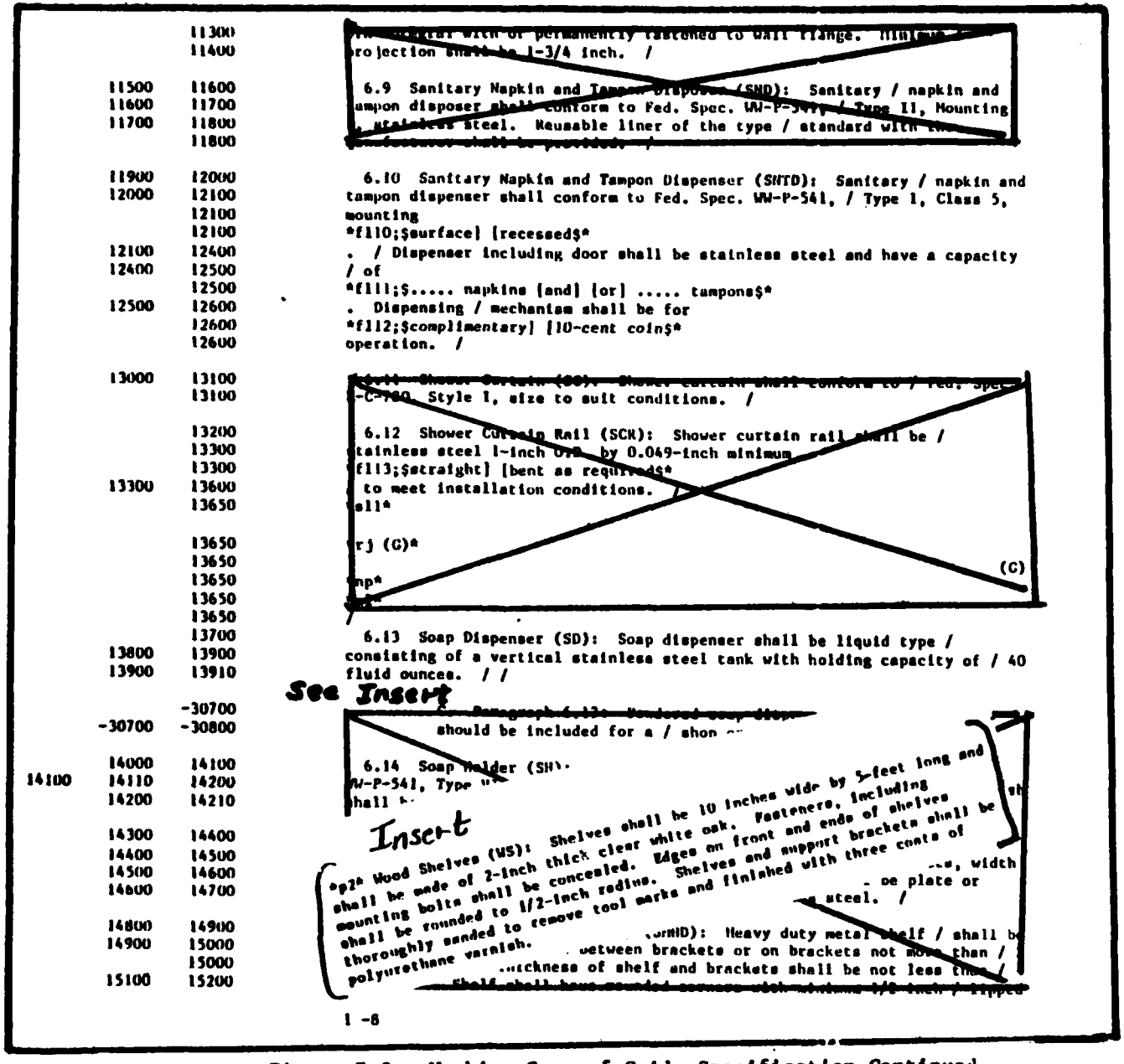



Figure 7.3. Working Copy of Guide Specification Continued. Print Option 2.



11300
11400
11500 11600
11600 11700
11700 11800
11800

~~[illegible] with or permanently fastened to wall flange. Minimum [illegible]~~
~~projection shall be 1-3/4 inch. /~~

~~6.9 Sanitary Napkin and Tampon Disposer (SND): Sanitary / napkin and~~
~~tampon disposer shall conform to Fed. Spec. WW-P-541, / Type II, Mounting~~
~~, stainless steel. Reusable liner of the type / standard with the~~
~~[illegible] shall be provided. /~~

11900 12000
12000 12100
12100
12100
12100 12400
12400 12500
12500
12500 12600
12600
12600

6.10 Sanitary Napkin and Tampon Dispenser (SNTD): Sanitary / napkin and tampon dispenser shall conform to Fed. Spec. WW-P-541, / Type 1, Class 5, mounting
*f110;$surface] [recessed$*
. / Dispenser including door shall be stainless steel and have a capacity / of
*f111;$..... napkins [and] [or] ..... tampons$*
. Dispensing / mechanism shall be for
*f112;$complimentary] [10-cent coin$*
operation. /

13000 13100
13100
13200
13300
13300
13300 13600
13650
13650
13650
13650
13650
13650
13700
13800 13900
13900 13910

~~6.11 Shower Curtain (SC): Shower curtain shall conform to / Fed. Spec.~~
~~[illegible]-C-780, Style 1, size to suit conditions. /~~

~~6.12 Shower Curtain Rail (SCR): Shower curtain rail shall be /~~
~~stainless steel 1-inch O.D. by 0.049-inch minimum~~
~~*f113;$straight] [bent as required$*~~
~~to meet installation conditions. /~~
~~sll*~~

~~rj (G)*~~
~~(G)~~
~~np*~~
~~[illegible]~~
~~/~~

6.13 Soap Dispenser (SD): Soap dispenser shall be liquid type / consisting of a vertical stainless steel tank with holding capacity of / 40 fluid ounces. / /

See Insert

-30700
-30700 -30800

~~[illegible] Paragraph 6.13: Powdered soap dispenser~~
~~should be included for a / shop [illegible]~~

14000 14100
14100 14110 14200
14200 14210

~~6.14 Soap Holder (SH): [illegible]~~
~~WW-P-541, Type [illegible]~~
~~shall [illegible]~~

Insert

14300 14400
14400 14500
14500 14600
14600 14700

*p2* Wood Shelves (WS): Shelves shall be 10 inches wide by 5-feet long and shall be made of 2-inch thick clear white oak. Fasteners, including mounting bolts shall be concealed. Edges on front and ends of shelves shall be rounded to 1/2-inch radius. Shelves and support brackets shall be thoroughly sanded to remove tool marks and finished with three coats of polyurethane varnish.

~~[illegible], width~~
~~[illegible] be plate or~~
~~[illegible] steel. /~~

14800 14900
14900 15000
15000
15100 15200

~~[illegible]SHD): Heavy duty metal shelf / shall be~~
~~[illegible] between brackets or on brackets not more than /~~
~~[illegible]ickness of shelf and brackets shall be not less than /~~
~~Shelf shall have rounded corners with minimum 1/2 inch / lipped~~

1 -8

Figure 7.3. Working Copy of Guide Specification Continued. Print[illegible]ion 2.

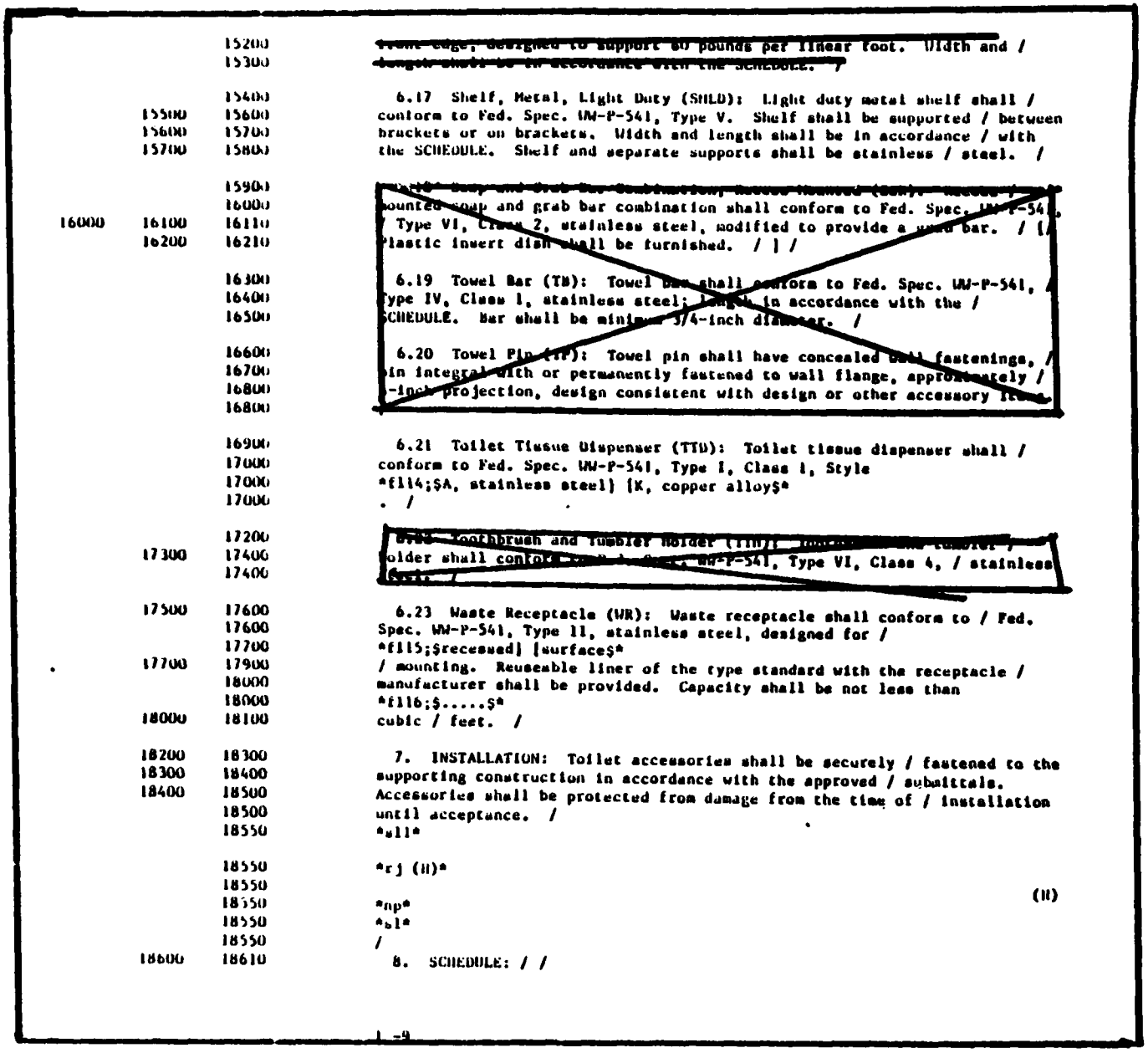


Figure 7.3. Working Copy of Guide Specification Continued.
Print Option 2.

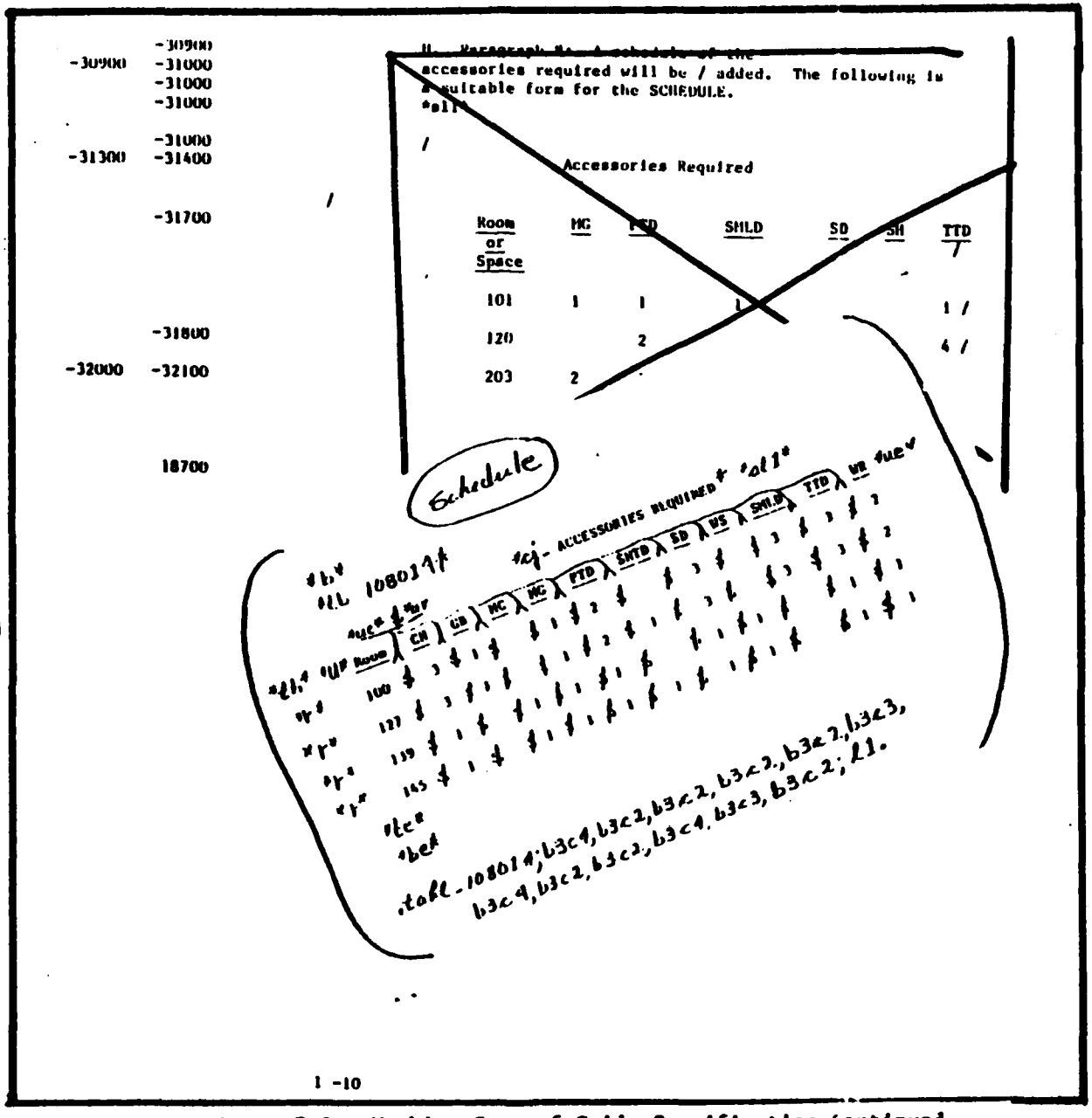







Figure 7.3. Working Copy of Guide Specification (continued. Print Opti 2.

```
        18700          /
        18800          *cj GENERAL NOTES*
        18800                                GENERAL NOTES
        18800          *sl*
        18800          /
        18900          *bp 2*
        18900          /

        19000          1.  This guide specification is to be used in the
19000   19100          preparation of project / specifications in accordance
19100   19200          with ER 1110-345-720.  It will not be made a / part of
        19200          a contract merely by reference; pertinent portions will
19200   19300          be copied / verbatim into the contract documents.  /

        19400          2.  The capital letters in the right hand margins
19400   19500          indicate that there is / a technical note pertaining to
19500   19600          that portion of the guide specification.  It / is
        19600          intended that the letters in the margins be deleted
19600   19700          before typing the / project specifications.  /

        19800          3.  Where numbers, symbols, words, phrases, clauses, or
19800   19900          sentences in / this specification are enclosed in
19900   20000          brackets [], a choice or modification / must be made;
        20000          delete inapplicable portion(s) carefully.  Where blank
20000   20100          spaces / occur in sentences, insert the appropriate
20100   20200          data.  Where entire paragraphs / are not applicable,
        20200          they should be deleted completely. /
        20210          *sl4*



        20210          /
        20300          *cj TECHNICAL NOTES*
        20300                                TECHNICAL NOTES
        20300          *sl*
        20300          /
        20400          *bp 3*
        20400          /

        20500          A.  The section number will be inserted in
20500   20600          the specification heading / and prefixed to each page
        20600          number in project specifications.  /

        20700          B.  Paragraph 1:  The listed designations for
20700   20800          publications are those / that were in effect when this
20800   20900          guide specification was being prepared.  / These
        20900          designations are updated when necessary by Notice, and
20900   21000          references in / project specifications need be no later
21000   21100          than in the current Notice for this / guide
        21100          specification.  To minimize the possibility of error,
21100   21200          the letter / suffixes, amendments, and dates indicating
21200   21300          specific issues should be retained / in paragraph 1 and
        21300          omitted elsewhere in the project specifications.  /

                  1 -11
```

Figure 7.3. Working Copy of Guide Specification Continued. Print Option 2.

```
                21400
                21500   C.  Paragraph 3:  Project drawings should
21400           21500   indicate mounting heights and / location.  /

                21600
                21700   D.  Paragraph 4:  Tamperproof fasteners will
21600           21700   be specified for accessories / which have exposed
                21700   fasteners in areas used by neuropsychiatric patients or
21700           21800   / prisoners and where theft or vandalism would be a
21800           21900   problem in areas used by / the public.  Locations where
21900           22000   tamperproof fasteners are required will be / inserted
                22000   in the blank space.  Although this guide specification
22000           22100   places / the responsibility with the Contractor for
22100           22200   providing, subject to Government / approval, fasteners
                22200   and anchors of the type, size and number required to /
                22300   adequately secure the accessory items, specific
22300           22400   requirements for critical or / unusual applications
                22400   will be specified.  When this is necessary, the /
                22500   specifications may refer to details on the drawings, or
22500           22600   the specifications may / be expanded to include the
                22600   necessary requirements.  /

                22700
22700           22800   E.  Paragraphs 5 and 6:  In order to minimize
                22800   the confusion of selecting / the numerous options
                22900   contained in Fed. Spec. WW-P-541/8A, only those /
22900           23000   accessories and finishes normally suitable for military
                23000   construction were / included in this guide
23000           23100   specification.  When other accessories and finishes are
23100           23200   / required to meet the needs of the project, the
23200           23300   specifier should review the / options included in Fed.
                23300   Spec. WW-P-541/8A for inclusion.  When preparing / the
23300           23400   contract documents, the specifier should review the
23400           23500   detail requirements / of Fed. Spec. WW-P-541/8A to
                23500   assure that correct selections have been / included.
23500           23600   In areas of hard usage, maximum use should be made of
                        recessed / accessories.  /

                23700
23700           23800   F.  Paragraph 6:  Only those accessory items
                23800   to be used will be retained.  / For materials, sizes,
                23900   etc., in brackets, the applicable wording will be /
23900           24000   retained, the inapplicable wording deleted, and the
24000           24100   brackets removed.  / Identifying abbreviation in
                24100   parentheses will be retained for those items to / be
24100           24200   used and shown on the drawings.  The various accessory
                24200   items will generally / be used in the following
                24200   locations:
                        *all*

                24200   /
                24300   *tb 108012*
```

1 -12

**Figure 7.3. Working Copy of Guide Specification Continued.**
Print Option 2.

| | | | | | | |
|---|---|---|---|---|---|---|
| | 24400 | 24500 | 24600 | 24700 | CH | Hooks will be located out of the way of traffic and at an / elevation that will minimize the possibility of head injury from the hooks. / These hooks will be mounted on an oak strip when used in rough usage areas. / |
| | | | 24800 | 24900 | PTD | Private bathrooms used by women. Limit to one per / bathroom. / |
| | 25000 | 25100 | 25200 | 25300 | GB | Bathrooms that will be used by people in a weakened condition, / such as in hospitals. Vertical grab bars should be considered in private / bathrooms where a soap and grab bar combination (SGR or SGS) accessory / is not provided. Forms and lengths will be shown on the drawings. / |
| | | 25400 | 25500 | 25600 | MC | Private bathrooms where storage of personal items in the / bathroom is also desirable. Limit to one per bathroom. Select Class 1 or / Class 2. When a vanity cabinet is specified, a glass mirror is required. / |
| 25700 | 25800 | 25900 | 26000 | 26100<br>26200 | MC | Private bathrooms where a medicine cabinet is not provided, / in general-use toilets, and hand washing areas. Mirror is 18 inches by 30 / inches. Mirrors larger than 18 inches by 30 inches will be specified in / SECTION: GLASS AND GLAZING. Limit to not more than / one per lavatory. Adjustable tilt table mirror will be provided in areas to / be used by wheelchair handicapped. / |
| | | 26300 | 26400 | 26500 | MM | Areas used by neuropsychiatric patients or prisoners and / where vandalism would be a problem in areas used by the public. Limit to / one per lavatory. / |
| | 26600 | 26700 | 26800 | 26900 | PTD | Public toilets and toilets in nondomiciliary type buildings / in accordance with the requirements of the using service. Limit to not / more than one for two lavatories, except one per toilet in single lavatory / installation. / |

1 -13

Figure 7.3. Working Copy of Guide Specification Continued. Print Option 2.

| | | | | | |
|---|---|---|---|---|---|
| | 27000 | 27100 | 27200 | RH | Bathrooms with bathtubs or shower. Limit to two per shower / or bathtub. These hooks will be mounted on an oak strip when used in rough / usage areas. / |
| 27300 | 27400 | 27500 | 27600 | SND | Public toilets and toilets in nondomiciliary type buildings / used by women. Disposal will be mounted in the toilet partition and / serving two toilet compartments. Such toilet compartment shall be accessible / to a disposal unit. / |
| 27700 | 27800 | 27900 | 28000 | SNTD | Public toilets and toilets in nondomiciliary type / buildings used by women. Use of recessed units will be considered for / installations which are required to present an excellent appearance. Limit / to one per toilet. / |
| 28100 | 28200 | 28300 | 28400 | SC & SCR | Installations with combination bathtub and shower or / individual shower, except where metal-cabinet shower units which include / rails and curtains are used. One per shower-tub installation and one per / individual shower installation. / |
| | | 28500 | 28600 | SD | Public toilets and toilets in nondomiciliary type buildings / unless included with paper towel dispenser. Limit to one per lavatory. / |
| | | 28700 | 28800 | SH | Private toilets with lavatory unless soap dispenser is / specified. Limit to one per private toilet. / |
| | | 28900 | 29000 | SG | Private bathrooms where a metal shelf or a medicine cabinet / is not provided. Limit to one per bathroom. / |
| | | 29100 | 29200 | SMHD | Troop facilities and other areas subject to rough usage. / Installation will be detailed on the drawings. / |
| | | 29300 | 29400 | SMLD | Private bathrooms where a glass shelf or medicine / cabinet is not provided. / |

I -14

Figure 7.3. Working Copy of Guide Specification Continued.
Point Option

```
                                29500   29600                   SGR     Installations with bathtub or shower.
                                                                        Limit to one per / bathtub or shower-tub
                                                                        installation and one per separate
                                                                        showerhead. /

                                        29700                   TB      Private bathrooms. Limit to two per
                                                                        bathroom. /

                                29800   29900                   TP      Private bathrooms where a shower is
                                                                        provided in lieu of a bathtub. / Limit
                                                                        to one per bathroom. /

                                        30000                   TTD     Limit to one per water closet. /

                                        30100                   TTH     Private bathrooms. Limit to one per
                                                                        lavatory. /

30200   30300   30400   30500   30600                           WR      Public toilets and toilets in
                                                                        nondomiciliary type buildings / when
                                                                        requested by the using service. Use of
                                                                        recessed combination units / will be
                                                                        considered for installations which are
                                                                        required to present an / excellent
                                                                        appearance. Limit to not more than one
                                                                        pet two paper towel / dispensers. /

                                30700
                        30700   30800   C. Paragraph 6.11: Powdered soap dispenser
                                        should be included for a / shop or industrial area. /

                                30900
                        30900   31000   H. Paragraph 8: A schedule of the
                                31000   accessories required will be / added. The following is
                                31000   a suitable form for the SCHEDULE.
                                31000   "all"

                                31000   /
                                31100   "b"
```





**Figure 7.3. Working Copy of Guide Specification Continued.**
Print Option 2.

```
        31100                  /
        31200                  *tb 108013*
31300   31400                                  Accessories Required

                       /
        31700                  Room      HG    PTD      SHLD      SD    SH    TTD
                                 or                                                /
                                 Space

                                 101       1     1        1                     1 /

        31800                    120             2                2               4 /

32000   32100                    203       2     1        1-6"x24"          1
                                                          1-8"x30"          /

                                                                            /

        32200                  *be*
        32200                  /
        32300                  *cj END*
        32300                                        END* /
```

1 -16

Figure 7.3. Working Copy of Guide Specification Continued.
Print Option 2.

SECTION 10A

TOILET ACCESSORIES

1. APPLICABLE PUBLICATIONS: The Federal Specifications (Fed. Spec.) listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

| | |
|---|---|
| DD-M-00411b & Am-1 | Mirrors, Glass |
| WW-P-541/8A & Am-1 | Plumbing Fixtures (Accessories, Land Use) (Detail Specification) |

2. GENERAL: Toilet accessories as specified herein shall be provided in accordance with the SCHEDULE hereinafter. Porcelain type, tile-wall accessories are specified in SECTION: CERAMIC TILE. Each accessory item shall be complete with the necessary mounting plates, anchors, and fasteners. Concealed mounting plates shall be of sturdy construction with corrosion resistant surface.

3. SAMPLES AND DESCRIPTIVE DATA: One sample of each accessory proposed for use shall be submitted for approval. Samples shall be accompanied by descriptive data indicating materials of construction, fasteners proposed for use for each type of wall construction, recommended mounting locations, and mounting instructions. Approved samples may be incorporated into the finished work provided they are identified and their locations noted.

4. ANCHORS AND FASTENERS shall be capable of developing a restraining force commensurate with the strength of the accessory to be mounted and shall be well suited for use with the supporting construction. Where exposed fasteners are permitted, they shall have oval heads and finish to match the accessory.

5. FINISHES: Finishes on metals shall be provided as follows:

| Metal | Finish |
|---|---|
| Stainless steel | No. 4 general-purpose polished |
| Aluminum | Satin anodic, clear |
| Carbon steel, copper alloy, and brass | Chromium plated, bright |

6. ACCESSORY ITEMS shall conform to the respective specifications and other requirements specified below.

6.1 Coat Hook (CH): Coat hook shall be brass with two hooks, minimum projection of upper hook 3-1/2 inches and lower hook 1-3/4 inches with at least two holes thru wall flange for fastening.

10A-1

**Figure 7.4. Project Specification.**

6.2 Grab Bar (GB): Grab bar shall conform to Fed. Spec. WW-P-541, Type IV, Class 2. Stainless steel tube shall be 1-1/4 inches O.D. Grab bar shall be form and length as indicated. Flange shall have screw mounting holes concealed on the lip of the flange. Grab bar shall have a smooth surface. Installed bars shall be capable of withstanding a 500-pound vertical load without becoming loose from the fastenings and without obvious permanent deformation.

6.3 Medicine Cabinet (MC): Medicine cabinet shall conform to Fed. Spec. WW-P-541, Type III, Class 2. Cabinet shall be 16 inches wide, 20 inches high, and 6 inches deep. Mirror shall be plate or float glass. Design of swing door cabinet assembly including the lighting arrangement shall be as indicated. Assembly shall be recess mounted. Cabinet shall be located centrally behind the door. Mirror shall be provided on cabinet door.

6.4 Mirror, Glass (MG): Glass mirror shall conform to Fed. Spec. DD-M-411, Class 2, Style C.

6.5 Paper Towel Dispenser (PTD): Paper towel dispenser shall conform to Fed. Spec. WW-P-541, Type I, Class 3.

6.5.1 Mounting S, Surface:

6.5.1.1 Style N (Folded Towels): Style N dispenser shall not be less than 0.0269-inch, stainless steel.

6.6 Sanitary Napkin and Tampon Dispenser (SNTD): Sanitary napkin and tampon dispenser shall conform to Fed. Spec. WW-P-541, Type I, Class 5, mounting surface. Dispenser including door shall be stainless steel and have a capacity of 15 napkins or 20 tampons. Dispensing mechanism shall be for 10-cent coin operation.

6.7 Soap Dispenser (SD): Soap dispenser shall be liquid type consisting of a vertical stainless steel tank with holding capacity of 40 fluid ounces.

6.8 Wood Shelves (WS): Shelves shall be 10-inches wide by 5-feet long and shall be made of 2-inch thick clear white oak. Fasteners, including mounting bolts shall be concealed. Edges on front and ends of shelves shall be rounded to 1/2-inch radius. Shelves and support brackets shall be thoroughly sanded to remove tool marks and finished with three coats of polyurethane varnish.

6.9 Shelf, Metal, Light Duty (SMLD): Light duty metal shelf shall conform to Fed. Spec. WW-P-541, Type V. Shelf shall be supported between brackets or on brackets. Width and length shall be in accordance with the SCHEDULE. Shelf and separate supports shall be stainless steel.

6.10 Toilet Tissue Dispenser (TTD): Toilet tissue dispenser shall conform to Fed. Spec. WW-P-541, Type I, Class 1, Style A, stainless steel.

6.11 Waste Receptacle (WR): Waste receptacle shall conform to Fed. Spec. WW-P-541, Type II, stainless steel, designed for surface mounting.

10A-2

Figure 7.4. Project Specification. (Cont)

Reuseable liner of the type standard with the receptacle manufacturer shall be provided. Capacity shall be not less than 2.4 cubic feet.

7. INSTALLATION: Toilet accessories shall be securely fastened to the supporting construction in accordance with the approved submittals. Accessories shall be protected from damage from the time of installation until acceptance.

8. SCHEDULE:

ACCESSORIES REQUIRED

| Room | CH | GB | MC | MG | PTD | SNTD | SD | WS | SMLD | TTD | WR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 3 | 1 | | 1 | 2 | | 3 | | 3 | 3 | 2 |
| 127 | 3 | 1 | | 1 | 2 | 1 | 3 | | 3 | 3 | 2 |
| 139 | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 |
| 145 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 |

10A-3

**Figure 7.4. Project Specification. (Cont)**

## PROCEDURE 8

## PREPARATION OF A PROJECT SPECIFICATION BY AUTOMATIC GENERATION

1. PROJECT SPECIFICATION SECTION.

The specification writer has checked the design conditions applicable to the project (Figure 8.1) and inserted project unique text in the working copy of the guide specification (Figure 8.2).

2. OPERATOR PROCEDURES.

Upon receipt of the final draft of the project specification the operator must perform the following tasks:

a. Identify project. An assigned prefix of four unique characters to identify the office and all sections of specification for this project was assigned, i.e. "99mw" for a warehouse building at the Mississippi Army Ammunition Plant.

b. Access the System. Prior to entering the EDITSPEC system, the operator must follow the procedure given to enter and leave the computer.

c. Automatic Generation. System, internal and editing commands were applied to produce the specification section (Figure 8.3).

3. COMMANDS.

(If the operator did not issue a .noti command when obtaining a copy of the guide specification the following commands must be issued).

```
.logon 99000102labc;99mw01.          (Spec writer user id and previously
                                      assigned account number)

.noti (cegsce212.01).                (To receive messages to document)

.logof.

        (Operator is now ready to logon with previously
        assigned id and account number)

.logon 99000101aaa;99mw01.           (Operator user id and account number)

        (The following commands are issued only once
         per document)

.size 180.                           (Number of lines per document -
                                      number lines per page x number pages)

.dscr (99mw01);180.                  (Create data set)
```

```
.spec (99mwce212.01);a;1,2,3,-4,5,6,7,-8,9,10,-11,12,13,14.
                                        (Add the selected/rejected design
                                         conditions to the spec condition
                                         table)

.gene (99mwce212.01); cegs;99mw01;1;0;1.  (Generate the project section
                                         from the master)

.acce (99mwce212.01)(w);;(990001021???).  (Grant all users whose ids match
                                         the mask write access)

                (Remaining commands are a typical example of one
                 editing session)

.edit (99mwce212.01).                   (Enter activity description,i.e.,
                                         creation of project spec or
                                         reviewing schedules in
                                         specification)

.co ;-2100.                             (Convert pull to a *cu, copy the
                                         pull from the master and imme-
                                         diately print the text)

.it 1002;/talled /;/beneath and on all sides of sumps /.
                                        (Insert project unique text)

co ;-4100.                              (Convert pull to a *cu, copy the
                                         pull from the master and imme-
                                         diately print the text)

.ch 3402;/Membrane /;/Except as otherwise specified, membrane /;;1.
                                        (Insert project unique text)

.co ;-4500.                             (Convert pull to a *cu, copy the
                                         pull from the master and imme-
                                         diately print the text)

.it 3802;/$* /;/Membrane for the Communications Building shall be fabric,
. applied in solid moppings, of the type of bitumen with which the fabric
. is saturated.  /.
                                        (Insert project unique text)

.bp 26;7.                               (Reset paragraph numbering format
                                         26 to 7A)

.bn 26;3;7,A.                           (Reset page numbering format 26
                                         to page 7A-1)
```

NOTE: Resolve the external references with reference removal and flag removal switches set to 1 (.rr_;1;1.) before the final printing of the document.

.pr 26;1,x;void,proj;;;;;1. (Out data set is created for printing at users high speed printer)

.stor. (Editing work stored, enter system mode)

.logof. (User logged-off Editspec System)

The system will respond with the following questions.
(User types answers as noted).

***END-OF-INPUT ENCOUNTERED.
**********JOB HAS BEEN TERMINATED**********

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)

Step 1. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOF

Step 2. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 3. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 4. Type: no (Loops to the out data sets)
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 5. Type: yes (Lists the name of each out data set, to be listed or deleted).
Return

System will respond with:

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ------- XXXX.OUT.JL23.T105722
IN-CAT ---- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 6. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 7. Type: l
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 8. Type: xxxx.out.j123.t105722
Return

Step 9. Before doing a carriage return, position your paper for correct top margin.

The document will be printed as requested (Figure 8.3). Upon completion of printing the system will respond with the following.

LISTING OF DATA SET ENDS AT: 'CURRENT TIME'
THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ---------- XXXX.OUT.JL23.T105722
IN-CAT-------- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 10. Type: Yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 11. Type: del
Return

NOTE: To keep storage to a minimum, always delete after listing)

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 12. Type: xxxx.out.j123.t105722
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 13. Type: no
Return

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)

Step 14. Type: no
Return

```
                DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
                ENTER NO TO PROCEED WITH LOGOFF
```

Step 15. Type: no
Return

```
                DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)
```

Step 16. Type: no
Return

```
                DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
                IF 'NO' WILL RETURN TO EDITSPEC
```

Step 17. Type: yes
Return

```
                DO YOU WISH TO LOGON WITH ANOTHER ID?
```

Step 18. Type: no
Return

The system will respond with time, CPU, service-session and current date.

```
TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'
        ************************************************************
        *****   THE CONNECT TIME IS LISTED AS SESSION ON    *****
        *****   THE ABOVE LINE. THE CONNECT TIME CHARGE     *****
        *****            IS 13 CENTS/MINUTE                 *****
        ************************************************************
        TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
        EXECUTION WAS DURING NORMAL WORKING DAY
        THE CPU TIME IN HUNDREDTHS OF SECONDS:  'CPU TIME'
        THE EXCP COUNT (IO):  'EXCP COUNT'
        THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS:  'COST'
        'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
        LAST STEP COMPLETION CODE WAS USER   000

        Session Complete
```

## 4. SUMMARY.

The number and type of commands an operator would use in preparing a project specification section would vary according to the mark-up of the draft specification. Other features, not shown in the example, may be utilized (Reference User Manual).

Preceding page blank



DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS

CE-212.01
May 1973
Superseding
CE-212.01

Notice 13
January 1981

CONCEPT DESIGN .....

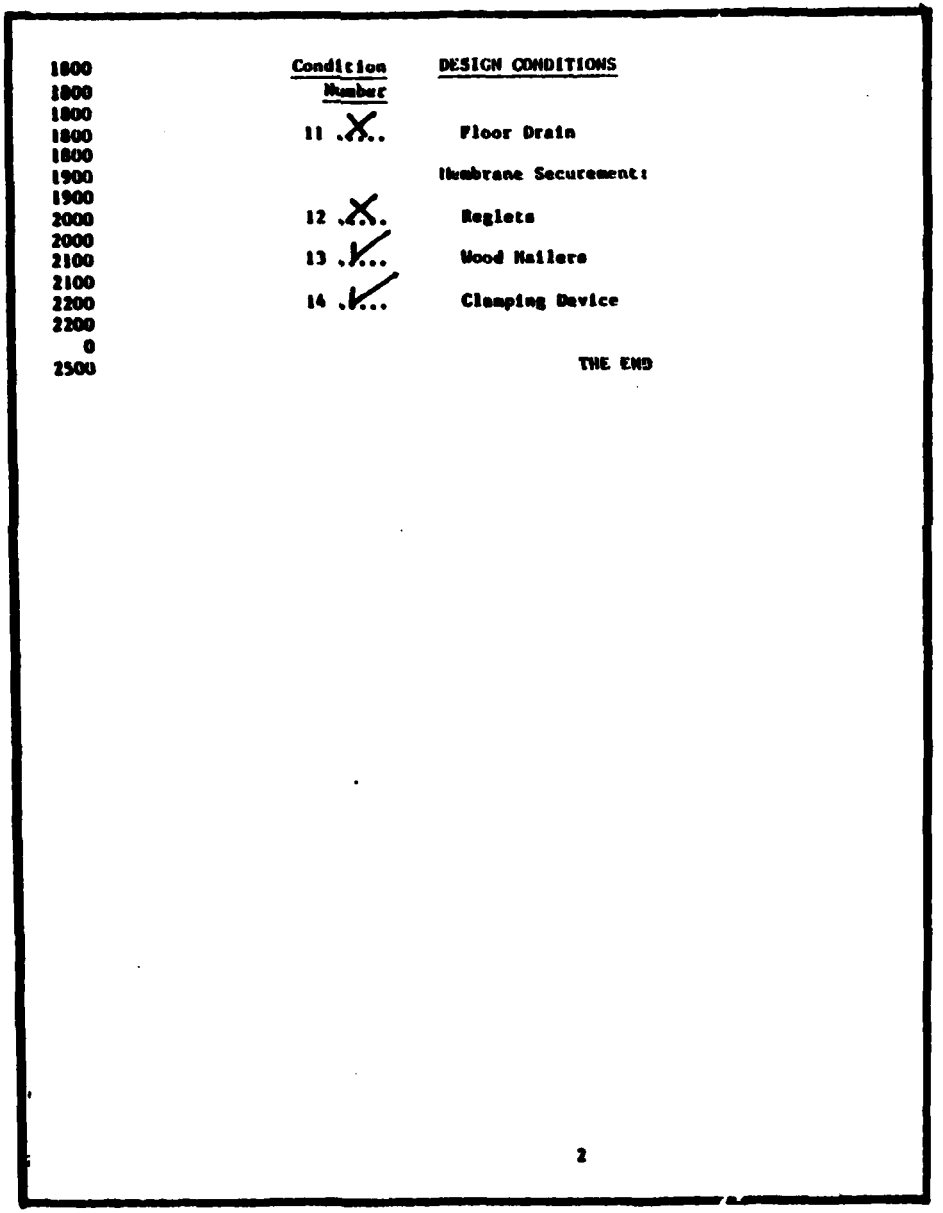
FINAL DESIGN .X...

CHECKLIST -- CE-212.01 -- BITUMINOUS WATERPROOFING

| Condition Number | DESIGN CONDITIONS |
|---|---|
| 1 | Control Condition (No Action Required) |
| | Waterproofed Surface: |
| 2 X | Floor |
| 3 ✓ | Wall |
| | Membrane Type: |
| 4 X | Felt |
| 5 ✓ | Fabric |
| 6 ✓ | Protected with Insulation Board |
| | Exposure Temperature of Completed Membrane: |
| 7 ✓ | 125 Degrees F. and Less |
| 8 X | Greater Than 125 Degrees F. |
| | Membrane Penetrations: |
| 9 ✓ | Pipe |
| 10 ✓ | Conduit |

1

Figure 8.1. Design Condition Checklist (Marked for Project)



| | Condition Number | DESIGN CONDITIONS |
|---|---|---|
| 11 | X | Floor Drain |
| | | Membrane Securement: |
| 12 | X | Reglets |
| 13 | ✓ | Wood Nailers |
| 14 | ✓ | Clamping Device |

THE END

2

Figure 8.1. Design Condition Checklist (Cont)

```
CE-212.01 (May 1973)

                    0          *sl* /
      0       0     0          DEPARTMENT OF THE ARMY* /                                  CE-212.01
      0       0     0          OFFICE OF THE CHIEF OF ENGINEERS* /                        May 1973
              0     0          /                                                          Superseding
              0     0          /                                                          CE-212.01

              0     0          /                          Notice 13
              0     0          /                        January 1981

              0     0          /              CORPS OF ENGINEERS GUIDE SPECIFICATION
              0     0          /                      MILITARY CONSTRUCTION

              0     0          /                                                                (B)
      0       0     0          /                        SECTION .....* /

              0     0          /                                                                (A)
              0   130          /                  BITUMINOUS WATERPROOFING
            130     0          /

                    0                                                                          (C)
              0   140          /
                  140            1.  APPLICABLE PUBLICATIONS:  The publications listed below form a part /
                  140          of this specification to the extent referenced.  The publications are
    140     140   150          referred / to in the text by the basic designation only.  /

                  150            1.1  Federal Specifications (Fed. Spec.):
                  150          *sll*

            150     0          /
                    0          *tb 250*
  1200-50013888-50013920              HH-I-526C                Insulation Board, Thermal (Mineral
                                                               Fiber)
                                                               /
  1300-50023488-50023504              SS-C-153C                Cement, Bituminous, Plastic
                                                               /
                  700
                  700            1.2  American Society for Testing and Materials (ASTM) Publications:
                  700          *sll*

            700     0          /
                    0          *tb 250*
  1700 -2822400 -2822410              C 208-72                 Insulating Board (Cellulosic Fiber),
                                                               Structural and Decorative
                                                               /

                                1
```

Figure 8.2. Print Option 3 (Marked for Automatic-Generation)

CE-212.01 (May 1973)

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 1800 | -2831500 | -2831510 | D 41-78 | Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing / |
| | | 1900 | -2831600 | -2831625 | D 43-73 | Creosote Primer used in Roofing, Dampproofing and Waterproofing / |
| | | 2000 | -2833400 | -2833425 | D 173-80 | Bitumen-Saturated Cotton Fabrics Used in Roofing and Waterproofing / |
| | | 2100 | -2833800 | -2833805 | D 226-80 | Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing / |
| | | 2200 | -2833900 | -2833915 | D 227-78 | Coal-Tar-Saturated Organic Felt Used in Roofing and Waterproofing / |
| | | 2300 | -2836100 | -2836125 | D 449-79 | Asphalt Used in Dampproofing and Waterproofing / |
| | | 2400 | -2836200 | -2836210 | D 450-78 | Coal-Tar Bitumen Used in Roofing, Dampproofing, and Waterproofing / |
| | | 2500 | -2844100 | -2844125 | D 1327-78 | Bitumen-Saturated Woven Burlap Fabrics used in Roofing and Waterproofing / |
| | | 2600 | -2845800 | -2845825 | D 1668-80 | Glass Fabrics (Woven and Treated) Roofing and Waterproofing / |

```
                                  0        *sll*

                                  0        *rj (D)*
                                  0
                                  0        *np*                                    (D)
                                  0        *sl*
                          0      2100      /
                       2100      2100        2. GENERAL: Waterproofing shall be installed beneath and on all sides of sumps where indicated. /
                                 2100      Waterproofing
                                 2100      *fll;$may be either asphalt or coal-tar$*
                       2100      2100      [may be either asphalt or coal-tar] and shall be applied when / the ambient
                       2100      2100      temperature is 40 degrees F. or above. Materials shall be stored in an /
                                 2100      enclosed area free from contact with soil, weather, and an area maintained
                       2100      2100      / at not less than 50 degrees F. for at least 24 hours before use. When
                       2100      2100      waterproofing / in an enclosed space, adequate ventilation shall be
2100    2200    2300    2400      2500      provided. Where / pipes, / conduit, / or other / items pass through the
                2500    2600      2700      areas to be waterproofed/ , and where floor drains occur in such areas/ ,
                2700    2700         0      the waterproofing shall be installed after / the flashing. /
                                  0        *sll*

                                  0        *rj (E)*
```

2

Figure 8.2. Print Option 3 (Cont)

```
                                                                                                                    (E)
                                                0
                                                0          ^s1^
                                          0     2710       /

                                          2710  2710         3. MATERIALS shall conform to the respective specifications and other /
                                                2710       requirements specified below. Materials shall be delivered to the site in
                                    2710  2710  2720       / sealed containers bearing the manufacturer's original labels. /

                                                2720         3.1 Asphalt: ASTM D 449, Type
                                                2720       ^f12;$II] [III$^
                                          2720  2800       [II] [III]. /

                                          2800  2900         3.2 Asphalt Saturated Felt: ASTM D 226, type I. /

                                          2900  3000         3.3 Coal-Tar Pitch: ASTM D 450, Type B. /

                                          3000  3100         3.4 Coal-Tar Saturated Felt: ASTM D 227, 36-inch width. /

                                          3100  3200         3.5 Fabric: ASTM D 173, ASTM D 1327 or ASTM D 1668. /

                              3200  3200  3300  3300         3.6 Plastic Cement: Fed. Spec. SS-C-153, / Type I / for asphalt, / Type
                                    3300  3300  3400       II / for coal-tar pitch /
                                                3400       ^fb99;$.$^

                                          3400  3400       /

3400                  3500  3600  3700  3700         3.7 Primer: / For asphalt - / ASTM D 41/ ; for coal-tar pitch - / ASTM
                                    3700  3800  3900       D 43/ . /

                                          3900  3900         3.8 Insulation Board: ASTM C 208, Class C, 1/2-inch thick, asphalt /
                                          3900  3900       saturated or coated; Fed. Spec. HH-I-526, 7/16-inch thick, covered one /
                                          3900  3900       side with an asphalt surfacing weighing not less than 4 ounces per / square
                                          3900  3900       foot and faced with asphalt-saturated kraft paper; or prefabricated /
                                          3900  3900       membrane board 1/8-inch thick, consisting of asphalt-saturated felt /
                                          3900  4000       laminated under pressure to both sides of mineral filled asphalt core. /

                                          4000  4000         4. APPLICATION: /

                                                4000         4.1 Inspection: Surfaces to be waterproofed shall be examined carefully
                                          4000  4000       / for defects or conditions that will prevent a satisfactory application.
                                    4000  4000  4000       / Waterproofing work shall not start until corrections have been made. /
                                          4000  4000       Particular attention shall be given to the following: /

                                          4000  4000         4.1.1 Surfaces shall be free of holes, joints, cracks and projections /
                                          4000  4000       which could puncture the membrane. Holes, joints and cracks shall be /
                                                4000       pointed flush with mortar and projections shall be cut off or ground
                                          4000  4000       smooth. /

                                          4000  4010         4.1.2 Sleeves, metal flashings, /
```





Figure 8.2. Print Option 3 (Cont)

```
                4010   *f13;$floor drains, reglets and wood nailers$*
4010    4020    4020   [floor drains, reglets and wood nailers] / shall be properly installed.  /

                4020     4.1.3  Surfaces to be waterproofed shall be smooth and swept thoroughly /
        4020    4020   to remove dust, foreign matter and loose materials immediately before /
        4020    4020   waterproofing is applied.  Surfaces shall be thoroughly dry at time /
        4020    4020   waterproofing is applied.  All surfaces shall be inspected and approved /
        4020    4020   before application of waterproofing.  /

        4020    4020     4.2  Priming:  Surfaces to be waterproofed shall be coated uniformly /
        4020    4020   with primer at the rate of not less than 1 gallon per 100 square feet of /
        4020       0   surface.  Primer shall be permitted to dry before bitumen is applied.  /
                   0   *sll*

                   0   *rj (F)*
                   0                                                                    (F)
                   0   *np*
                   0   *sl*
           0    4100   /
4100    4200    4300     4.3  Membrane:  Membrane shall be formed of / either / asphalt-saturated
                4300   *f14;$felt$*
4300    4400    4400   [felt] applied in solid moppings of hot asphalt / or / coal-tar pitch
                4400   saturated
                4400   *f14;$felt$*
        4400    4500   [felt] applied in solid moppings of hot coal-tar pitch /
                4500   *fb99;$.$*

        4500       0   The number of plies and extent of membrane shall be as indicated.  /
                   0   *sll*

                   0   *rj (G)*
                   0                                                                    (G)
                   0   *np*
                   0   *sl*
           0    4550   /
                4550     4.4  Application of Membrane:  Asphalt shall not be heated above 450
4550    4600    4700   degrees F/ ., nor coal-tar above 375 degrees F/ .  Thermometers shall be
        4700    4700   used to check the / temperatures at the kettle during the heating process
        4700    4700   to insure maximum / temperature is not exceeded.  Bitumen shall be applied
4700    4700    4700   uniformly at the / rate for each ply of not less than / 25 pounds per 100
        4700    4800   square feet / for asphalt and 30 pounds per 100 square feet for coal-tar
        4800    4900   pitch /
                4900   *fb99;$.$*

                4900   *f15;$Felt or fabric$*
                4900   [Felt or fabric] shall be rolled or pressed firmly into the hot bitumen to
        4900    4900   eliminate air pockets, / wrinkles or similar deficiencies.  Plies shall be
        4900    4900   applied shingle fashion / and the
```

Except as otherwise specified

Membrane for the Communications Building shall be fabric, applied in solid moppings, of the type of bitumen with which the fabric is saturated.

4

Figure 8.2. Print Option 3 (Cont)

CE-212.01 (May 1973)

```
                        4900    *f14;$felt or fabric$*
                4900    4900    [felt or fabric] shall be coated thoroughly.  The entire top surface /
                4900    5000    shall then be given a final mopping using not less than / 70 pounds of
5000    5100    5100    5150    pitch, or / 60 pounds of asphalt / for each 100 square feet of surface.  /

                        5150      4.5  Fabric Reinforcing:  Reinforcing consisting of two plies of fabric /
                        5150    and moppings of bitumen shall be provided over the membrane at corners,
        5150    5200    5300    angles, / where the membrane passes through a wall, / over construction
                        5300    joints, and points where the membrane may be subject to unusual stress.
                5300    5300    Where slabs / abut walls, the first ply of reinforcing shall extend at
        5300    5300    5300    least 6 inches / on the slab and 8 inches on the wall.  / At vertical
                        5300    corners, the first ply shall extend at least 5 inches to each side of the
        5300    5300    5400    corner.  The / second ply shall lap the first ply by at least 2 inches.  /

                        5400      4.6  Clamping Devices:
                        5400    *f16;$At floor drains and elsewhere as indicated$*
                5400    5400    [At floor drains and elsewhere as indicated], / membrane shall be extended
                5400    5400    into a clamping device, set in a heavy coating / of plastic cement, and
                5400    5500    clamped securely.  /

                        5500      4.7  Flashing:  Flanges of flashing around penetrations and projections /
                5500    5500    shall be coated with primer and permitted to dry.  Flanges shall be /
                5500    5500    stripped in with two fabric collars extending 4 and 6 inches, /
                        5500    respectively, beyond the flanges and set in plastic cement.  Flashing thus
                5500    5500    / installed shall be lapped and mopped into the plies of the waterproofing
        5500    5500    5600    / to assure a waterproof joint.  /

                5600    5600      4.8  Flood Test:  Prior to concealment, waterproofing on floors / over
        5600    5600    5600    finished spaces / shall be tested for watertightness.  Drains shall be /
                5600    5600    plugged and floors shall be flooded with 3 inches of water.  Water / shall
                5600    5600    be permitted to stand for 24 hours.  If water level changes, leaks / shall
                5600    5700    be located and repaired, and membrane shall be retested.  /

                5700    5700      5.  PROTECTION:  Waterproofing against which backfill is to be placed /
                5700    5700    shall be protected by a single thickness of insulation board.  The /
                        5700    insulation board shall be pressed into the final mopping while the mopping
        5700    5700    5700    / is still hot, with edges of boards brought into moderate contact and /
                        5700    joints staggered.  Where surfaced mineral-wood board is used, the surfaced
        5700    5700    5700    / side shall face outward.  Boards shall be carefully and neatly fitted /
                5700    5700    around pipes and projections and shall cover the entire surface of the /
                5700    5700    waterproofing.  Membranes not covered with insulating fiberboards shall /
                5700    5700    be given temporary protection to prevent injury to the membrane due to /
                5700       0    subsequent building operations. /
                           0    *sp*
```

5

Figure 8.2. Print Option 3 (Cont)

```
                0       0       /
                        0       ^cj GENERAL NOTES^
                                0
                                0                       GENERAL NOTES
                                0       ^sl^
                0       0       /
                        0       ^bp 2^
                0       0       /

                                0       1.  This guide specification is to be used in the
                0       0               preparation of project / specifications in accordance
                0       0               with ER 1110-345-720.  It will not be / made a part of
                0       0               a contract merely by reference; pertinent portions /
                                0       will be copied verbatim into the contract documents.  /
                                0
                                0       2.  The capital letters in the right hand margins
                0       0               indicate that there is / a technical note pertaining to
                0       0               that portion of the guide specification.  / It is
                                0       intended that the letters in the margins be deleted
        0       0       0               before typing / the project specifications.  /

                                0       3.  Where numbers, symbols, words, phrases, clauses, or
                0       0               sentences in this / specification are enclosed in
                0       0               brackets [ ], a choice or modification / must be made;
                                0       delete inapplicable portion(s) carefully.  Where blank
                0       0               / spaces occur in sentences, insert the appropriate
                0       0               data.  Where entire / paragraphs are not applicable,
                0       0               they should be deleted completely.  /
                                0       ^sl4^

                0       0       /
                        0       ^cj TECHNICAL NOTES^
                                0                       TECHNICAL NOTES
                                0       ^sl^
                0       0       /
                                0       ^bp 3^
                0       0       /

                                0       A.  The project specification should contain
                0       0               the following requirements:  /

                                0       (1)  For the CONCRETE & MASONRY sections, surfaces to
                0       0               receive / waterproofing will be moist-cured and smooth.
                0       0               Holes will be filled / with mortar and high spots and
                0       0               projections will be ground smooth.  / Installation of
                                0       sleeves for pipes, conduits, and similar penetrations /
```





Figure 8.2. Pr( )tion 3 (Cont)

through waterproofed walls and slabs should be
specified. Pipe / sleeves, calking, and insulation
should conform to the requirements / of the applicable
plumbing, heating, and electrical sections of the /
project specifications and should be detailed on the
project / drawings. Pipe sleeves through floor slabs
should extend a minimum / of 2 inches above the
finished floor. Pipes carrying steam or / hot water
should be insulated where they penetrate a membrane. /

(2) For the CARPENTRY section, the project
specification should / require water-borne,
preservative-treated wood nailers for attachment / of
membrane on vertical surfaces. /

B. The section number will be inserted in
the specification heading and / prefixed to each page
number in project specifications. /

C. Paragraph 1: The listed designations for
publications are those / that were in effect when this
guide specification was being prepared. / These
designations are updated when necessary by Notice, and
references / in project specifications need be no later
than in the current / Notice for this guide
specification. To minimize the possibility of error, /
the letter suffixes, amendments, and dates indicating
specific issues / should be retained in paragraph 1 and
omitted elsewhere in the project / specifications. /

D. Paragraph 2: The location and extent of
waterproofing, the number / of plies, provisions for
nailing, large scale details of flashing / around
drains and penetrations, height of waterproofing on
walls and / details of waterproofing terminations will
be shown on project drawings. / Shower pans are
covered in SECTION: PLUMBING, GENERAL PURPOSE. /

E. Paragraph 3: Where waterproofing would
be exposed to temperatures of / more than 125 degrees
F. after application, paragraph 3.1 will be modified to
/ specify Type III asphalt in lieu of Type II asphalt,
paragraphs 3.3 and / 3.4 covering coal-tar pitch will
be deleted, and all references to / coal-tar pitch. /
"all"

/ Bentonite waterproofing may be considered as an
option in areas / where sufficient experience has been

Figure 8.2. Print Option 3 (Cont)

developed to assure satisfactory / performance. When using bentonite waterproofing system the / specification will require the Contractor to submit for approval / evidence that the properties of the bentonite will be equal to that / of 5 ply bituminous waterproofing. Bentonite materials will conform / to manufacturers' printed specifications and will be installed in / accordance with manufacturers' printed instructions. Bentonite will / not be specified where hydrostatic head exceeds 12 feet. Where / bentonite waterproofing is used, a report will be submitted to / HQDA (DAEN-MPE-S) Washington DC 20314. /

F Paragraph 4.3: In cases where waterproofing must be applied to / concrete or masonry walls in waterlogged soils or where some / settlement is likely to occur, it may be advisable to use the / fabric type instead of the felt type. In cases where rough masonry / walls must be waterproofed, unless such walls can be made reasonably / smooth with a parging of cement mortar, only the fabric type of / membrane waterproofing will be specified. Waterproofing will be / provided for portions of buildings below the anticipated water table. /

G. Paragraph 4.4: Usable spaces on or below grade will be five ply; / floors above grade will be three ply. /

^all^

/

^cj END^

END^ /





Figure 8.2. Print Option 3 (Cont)

```
     -185
        0
     -190
        0
     -200
     -210
     -220
        0
    -1000
        0
-50013900
-50013900
-50013900
-50023500
-50023500
        0
    -1500
        0
 -2822400
 -2822400
 -2822400
 -2831500
 -2831500
 -2831500
 -2831600
 -2831600
 -2831600
 -2833400
 -2833400
 -2833400
 -2836100
 -2836100
 -2836100
 -2836200
 -2836200
 -2836200
 -2844100
 -2844100
 -2844100
 -2845800
 -2845800
 -2845800
        0
     1002
     1004
     1006
     1008
     1010
     1012
    -4030
    -4200
    -4300
```

SECTION 7A

BITUMINOUS WATERPROOFING

1. APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1 Federal Specifications (Fed. Spec.):

| | |
|---|---|
| HH-I-526C | Insulation Board, Thermal (Mineral Fiber) |
| SS-C-153C | Cement, Bituminous, Plastic |

1.2 American Society for Testing and Materials (ASTM) Publications:

| | |
|---|---|
| C 208-72 | Insulating Board (Cellulosic Fiber), Structural and Decorative |
| D 41-78 | Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing |
| D 43-73 | Creosote Primer used in Roofing, Dampproofing and Waterproofing |
| D 173-80 | Bitumen-Saturated Cotton Fabrics Used in Roofing and Waterproofing |
| D 449-79 | Asphalt Used in Dampproofing and Waterproofing |
| D 450-78 | Coal-Tar Bitumen Used in Roofing, Dampproofing, and Waterproofing |
| D 1327-78 | Bitumen-Saturated Woven Burlap Fabrics used in Roofing and Waterproofing |
| D 1668-80 | Glass Fabrics (Woven and Treated) Roofing and Waterproofing |

2. GENERAL: Waterproofing shall be installed beneath and on all sides of sumps where indicated. Waterproofing may be either asphalt or coal tar and shall be applied when the ambient temperature is 40 degrees F. or above. Materials shall be stored in an enclosed area free from contact with soil, weather, and an area maintained at not less than 50 degrees F. for at least 24 hours before use. When waterproofing in an enclosed space, adequate ventilation shall be provided. Where pipes, conduit, or other items pass through the areas to be waterproofed, the waterproofing shall be installed after the flashing.

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Figure 8.3. Completed Project Specification

-4400 3. MATERIALS shall conform to the respective specifications and other
-4500 ruquirements specified below. Materials shall be delivered to the site in
-4600 sealed containers bearing the manufacturer's original labels.
0
-4700 3.1 Asphalt: ASTM D 449, Type II.
0
-4900 3.2 Coal-Tar Pitch: ASTM D 450, Type B.
0
-5100 3.3 Fabric: ASTM D 173, ASTM D 1327 or ASTM D 1668.
0
-5230 3.4 Plastic Cement: Fed. Spec. SS-C-153, Type I for asphalt, Type II
-5310 for coal-tar pitch.
0
-5370 3.5 Primer: For asphalt - ASTM D 41; for coal-tar pitch - ASTM D 43.
0
-5500 3.6 Insulation Board: ASTM C 208, Class C, 1/2-inch thick, asphalt
-5700 saturated or coated; Fed. Spec. HH-I-526, 7/16-inch thick, covered one side
-5800 with an asphalt surfacing weighing not less than 4 ounces per square foot
-5900 and faced with asphalt-saturated kraft paper; or prefabricated membrane
-6000 board 1/8-inch thick, consisting of asphalt-saturated felt laminated under
-6000 pressure to both sides of mineral filled asphalt core.
0
-6100 4. APPLICATION:
0
-6200 4.1 Inspection: Surfaces to be waterproofed shall be examined carefully
-6300 for defects or conditions that will prevent a satisfactory application.
-6400 Waterproofing work shall not start until corrections have been made.
-6500 Particular attention shall be given to the following:
0
-6600 4.1.1 Surfaces shall be free of holes, joints, cracks and projections
-6700 which could puncture the membrane. Holes, joints and cracks shall be
-6800 pointed flush with mortar and projections shall be cut off or ground
-6800 smooth.
0
-7000 4.1.2 Sleeves, metal flashings, and wood nailers shall be properly
-7000 installed.
0
-7100 4.1.3 Surfaces to be waterproofed shall be smooth and swept thoroughly
-7200 to remove dust, foreign matter and loose materials immediately before
-7300 waterproofing is applied. Surfaces shall be thoroughly dry at time
-7400 waterproofing is applied. All surfaces shall be inspected and approved
-7500 before application of waterproofing.
0
-7700 4.2 Priming: Surfaces to be waterproofed shall be coated uniformly with
-7700 primer at the rate of not less than 1 gallon per 100 square feet of
-7800 surface. Primer shall be permitted to dry before bitumen is applied.
0
3402 4.3 Membrane: Except as otherwise specified, membrane shall be formed
-8120 of either asphalt-saturated fabric applied in solid moppings of hot asphalt
-8200 or coal-tar pitch saturated fabric applied in solid moppings of hot
3802 coal-tar pitch. Membrane for the Communications Building shall be fabric,
3802 applied in solid moppings, of the type of bitumen with which the fabric is
3802 saturated. The number of plies and extent of membrane shall be as

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Figure 8.3. Completed Project Specification (Cont)

3802 indicated.
0

-8500 4.4 Application of Membrane: Asphalt shall not be heated above 450
-8610 degrees F., nor coal-tar above 375 degrees F. Thermometers shall be used
-8700 to check the temperatures at the kettle during the heating process to
-8800 insure maximum temperature is not exceeded. Bitumen shall be applied
-8910 uniformly at the rate for each ply of not less than 25 pounds per 100
-8930 square feet for asphalt and 30 pounds per 100 square feet for coal-tar
-9100 pitch. Fabric shall be rolled or pressed firmly into the hot bitumen to
-9200 eliminate air pockets, wrinkles or similar deficiencies. Plies shall be
-9300 applied shingle fashion and the fabric shall be coated thoroughly. The
-9400 entire top surface shall then be given a final mopping using not less than
-9500 70 pounds of pitch, or 60 pounds of asphalt for each 100 square feet of
-9500 surface.
0

-9600 4.5 Fabric Reinforcing: Reinforcing consisting of two plies of fabric
-9700 and moppings of bitumen shall be provided over the membrane at corners,
-9900 angles, over construction joints, and points where the membrane may be
-10000 subject to unusual stress. Where slabs abut walls, the first ply of
-10100 reinforcing shall extend at least 6 inches on the slab and 8 inches on the
-10200 wall. At vertical corners, the first ply shall extend at least 5 inches to
-10300 each side of the corner. The second ply shall lap the first ply by at
-10300 least 2 inches.
0

-10500 4.6 Clamping Devices: Where indicated, membrane shall be extended into
-10600 a clamping device, set in a heavy coating of plastic cement, and clamped
-10600 securely.
0

-10700 4.7 Flashing: Flanges of flashing around penetrations and projections
-10800 shall be coated with primer and permitted to dry. Flanges shall be
-11000 stripped in with two fabric collars extending 4 and 6 inches, respectively,
-11100 beyond the flanges and set in plastic cement. Flashing thus installed
-11200 shall be lapped and mopped into the plies of the waterproofing to assure a
-11200 waterproof joint.
0

-11800 5. PROTECTION: Waterproofing against which backfill is to be placed
-11900 shall be protected by a single thickness of insulation board. The
-12000 insulation board shall be pressed into the final mopping while the mopping
-12200 is still hot, with edges of boards brought into moderate contact and joints
-12300 staggered. Where surfaced mineral-wood board is used, the surfaced side
-12400 shall face outward. Boards shall be carefully and neatly fitted around
-12400 pipes and projections and shall cover the entire surface of the
-12600 waterproofing. Membranes not covered with insulating fiberboards shall be
-12600 given temporary protection to prevent injury to the membrane due to
-12700 subsequent building operations.

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Figure 8.3. Completed Project Specification (Cont)

PROCEDURE 9

PRINTING IN THE EDITSPEC SYSTEM AND
LISTING THE DATA SETS

1. GENERAL DESCRIPTION.

This procedure will show the user the three locations a print command may be directed and how to retrieve these formatted copies.

2. PROCEDURES.

System responses are typed in upper case letters. The user types the answers to the questions as specified after the word 'Type':

Step 1. Dial the phone number for the computer.
Depress Return Key (Return).

Step 2. Type: tso (to enter the time sharing operation)
Return

WELCOME TO NVIP
PLEASE SIGN ON

Step 3. Type: logon_user id/password_size(2500)_a(account number)
Return

'USER ID' LOGON IN PROGRESS AT 'CURRENT TIME' ON 'CURRENT DATE'
*** WELCOME TO N.V.I.P. 033d TIME SHARING OPTION ***
*** USE THE NEWS COMMAND FOR CURRENT INFORMATION ***
**** news was updated as of 'DATE UPDATED' *********
**********
***** THE DATE IS: 'CURRENT DATE' **********
***** THE TIME IS: ' CURRENT TIME' **********
**********
DO YOU WANT TO INPUT DATA FROM THE DISKETTE
ENTER YES OR NO

Step 4. Type: no
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 5. Type: no
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC
no - to proceed to the listing of the document data sets
yes - to proceed directly into EDITSPEC

Step 6. Type: yes
Return

Step 7. Commands issued in EDITSPEC
(Print commands are annotated (a,b,c) for follow-through purposes.)

```
.logon_user id;account number;
 password                          (Logon to EDITSPEC)

.edit_(cegs04200.00).              (Edit the document)

a. .pr_16;1,x;area.                (Document printed to user's
                                    high speed printer-creates
                                    an .out. data set)

b. .pr_16;1,x;area;;;;1.           (Document printed to user's
                                    current device after the
                                    user logs out of the system)

c. .pr_16;1,x;area;;;;2.           (Document printed to user's
                                    current device during excution)
```

Print command c will alert the system to immediately print the document while user is in EDITSPEC.

```
.logof.                            (Logoff EDITSPEC)

*** USER LOGGED-OFF EDITSPEC SYSTEM.
***END-OF-INPUT ENCOUNTERED.
DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS(YES OR NO)
```

Step 8. Type no
Return

```
DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOFF
```

Step 9. Type: yes (to list the print to user's current device from print command b)

```
DO YOU WANT TO LIST THE FIRST PRINT DATA SET
ENTER 'YES' OR 'NO'
```

Step 10. Type: no
Return

```
DO YOU WANT A PERMANENT COPY OF THIS PRINT DATA SET  (YES OR NO)
```

Step 11. Type: no
Return

```
DO YOU WISH TO LIST THE SECOND PRINT DATASET
ENTER 'YES' OR 'NO'
```

Step 12. Type: yes
Return

THE SECOND PRINT DATASET(FT08F001) CONTAINS THE FOLLOWING:
POSITION PAPER THEN HIT CARRIAGE RETURN

Step 13. Go to the perforation of the paper, roll the paper up 2 blank lines, return.

LISTING OF DATA SET STARTS AT: 'CURRENT TIME'

Document printed from print command b

LISTING OF DATA SET ENDS AT: 'CURRENT TIME'
DO YOU WANT A PERMANENT COPY OF THIS PRINT DATA SET (YES OR NO)

yes - permanent data set is required
no - permanent data set is not required

Step 14. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 15. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

yes - proceed with logoff
no - loops to the .out. data set area

Step 16. Type: no (to list the print to user's high speed printer from print command a)
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 17. Type: yes
Return

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ------- XXXX.OUT.JL23.T105722
IN-CAT ---- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 18. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 19. Type: l
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 20. Type: XXXX.OUT.j123.t105722
Return

LISTING OF DATASET STARTS AT: 'CURRENT TIME'

Document printed from print command a.

LISTING OF DATASET ENDS AT: 'CURRENT TIME'
THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ------- XXXX.OUT.JL.23.T105722
IN-CAT ---- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC

Step 21. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 22. Type: del
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 23. Type: XXXX.out.j123.t105722
Return

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR
DELETED

THERE ARE NO DATA SETS AVAILABLE TO BE LISTED OR DELETED
SESSION CONTINUING WITH EDITSPEC
DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 24. Type: no
Return

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)

```
Step 25. Type:  no
         Return

         DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
         ENTER NO TO PROCEED WITH LOGOFF

Step 26. Type:  no
         Return

         DO YOU WISH TO CONTINUE WITH EDITSPEC?  (YES OR NO)

Step 27. Type:  no
         Return

         DO YOU WISH TO TERMINATE THIS SESSION?  (YES OR NO)
         IF 'NO' WILL RETURN TO EDITSPEC

Step 28. Type:  yes
         Return

         DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 29. Type:  no
         Return

TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'
         ************************************************************
         *****   THE CONNECT TIME IS LISTED AS SESSION ON    *****
         *****   THE ABOVE LINE. THE CONNECT TIME CHARGE     *****
         *****            IS 13 CENTS/MINUTE                 *****
         ************************************************************
         TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
         EXECUTION WAS DURING NORMAL WORKING DAY
         THE CPU TIME IN HUNDREDTHS OF SECONDS:  'CPU TIME'
         THE EXCP COUNT (IO):  'EXCP COUNT'
         THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS:  'COST'
         'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
         LAST STEP COMPLETION CODE WAS USER   000
```

## PROCEDURE 10

## PROCEDURE FOR PREPARATION OF NOTICES

1. GENERAL DESCRIPTION.

The Corps of Engineers retains the current guide, as well as the previous edition in the guide specification data base. The first four characters of the document name reflect the guide posted through the preceding notice, if applicable. For illustrative purposes assume that the first notice changes have been received for guide CEGS-09650. The copy to be saved will be the basic document; therefore, the four-character prefix will be n000 (n00009650.00). When the second set of changes has been proposed, the n00009650.00 document will be deleted. A new document called n00109650.00 will be created to store the basic document posted through notice 1. Subsequent notice changes would be incorporated into the basic document in the same manner.

2. PROCEDURES.

Since this is the first notice to the guide, the .list dire and .spac commands will be applied to obtain the name and current size of the guide data set. The system will respond with the current size of the primary and secondary data sets. Multiply the primary size given by 2 (assume 170) and apply the default backup size (30) as given in the .dscr command. The last 5-characters of the notice data set name should match the last 5 characters of the guide data set name. If the first character of the guide data set name is "0", the first character of the notice data set name should be "g". If the first character of the guide data set name is "1", the first character of the notice data set name should be "h". This same data set will be repeatedly used for all future notices to this guide.

a. Specification Changes. A new document will be created to contain the notice changes. The four character prefix of the document will be "work" (work09650.00). To post changes that have been made in this document to the guide, the backup option switch in the .new command must be set to 2. The .du command will then be used to create all major tables from the cegs document. The .nn command will be entered to designate the lines changed by the notice.

b. Notice Cover Page. A new document must be created to contain the unique text of the cover page. The first letter of the document name will always be a "u". The second through fourth characters will be the notice number (001). All other characters remain unchanged. The first line of this document will always contain the definition of the notice header. This header will be right justified. The operator will enter the notice cover text for this issue (Figure 10.1).

c. Production Instructions. A new document will be created to contain all production instructions to the EDITSPEC system. The document name will be the same as above except the "u" will be changed to an "i" as the first character. The operator will issue the input command and add all printing instructions. The first edit, print and store will print the notice cover page. Apply one set of .bp., .bn., and .pr. commands for each sequential specification change required.

d. Execution Instructions.

(1) Message. An update message must be issued at least 5 working days before the notice goes into effect. Before issuing the .udme command, create the current guide as the guide posted through the last notice (i.e., n000). Apply the .du command and resolve all external references.

(2) Day Before Posting. Post the notice and delete the old work copy. (This can be done in batch mode with an overnight execution request).

3. COMMANDS.

Examples of commands (with an explanation of each command) required for each document is as follows:

Step 1. Specification Changes

| | |
|---|---|
| .list_dire-;/cegs09650.00/. | (Means of determining the data set name.) |
| .space_0e9660. | (Reports the total number of storage locations for the specified data set.) |
| .dscr_(ge9660);340. | (Data set, twice the size of the cegs data set, created to store the notice and duplicate copy.) |
| .new_(work09650.00);2. | (Working copy of guide created and stored on data set ge9660. The backup option is set to 2. The document is immediately edited.) |
| 2.2 | (Enter description of work activity.) |
| .du_(cegs09650.00). | (Major tables of the cegs document duplicated.) |
| .nn_1. | (Notice number set to 1.) |

(change text as required)

NOTE: Deleted text by notice will be marked with a text segment id of nnxx (xx is the Notice Number). Sufficient blank lines should be left for the deleted text by using the *sl* command.

| | |
|---|---|
| .stor. | (Editing work saved, enter system mode.) |

Step 2. Notice Cover Pages.

| | |
|---|---|
| .new_(u00109650.00);ge9660. | (Cover page document created and stored on data set ge9660 with an immediate edit.) |
| 2.2 | (Enter description of work activity.) |

```
.en_;/*hsCEGS-09650 (Notice 1)3*/.   (Enter the header storage containing the
                                      guide name and notice number in parentheses.)

.in.                                 (Enter input mode.)


(enter the first page of the notice cover)

blank line                           (Exit input mode.)

.en_;/*rh (**rjCEGS-09650**_**sl** **rjNotice 1** **sl** **rjOctober 1981**)*/.
                                     (On page 2, the header must be redefined to
                                      reflect the guide name, the notice number,
                                      and the date of the notice.)

.in.

(input the remainder of the cover page, if applicable)

blank line

.stor.                               (Editing work saved, enter system mode.)
```

Step 3. Production Instructions.

```
.new_(i00109650.00);ge9660.          (Production instruction document created
                                      and stored on data set ge9660 with an
                                      immediate edit.)

2.2                                  (Enter description of work activity.)

.in.                                 (Enter input mode.)

.edit_(u00109650.00)._ _2.3.         (Print with text and line number columns
.pr_18;1,x;;;;;1.                     to users current device, the complete
.stor.                                notice cover page.)

.edit_(work09650.00)._ _ 2.3.        (Reset paragraph and page number for the
.bp_1;_ _ _.                          first page of the notice.)
.bn_17;_;_ _ _.


.pr_17;1,x;area;;;1;1;2;;;;;1-1.     (Print first page of text changed by notice
                                      for logic condition override, to user's
                                      current device, no initialization and
                                      notice 1 to be printed.)

.bp_1;_ _ _.                         (Reset paragraph and page number for the
.bn_17;_;_ _ _.                       second page of the notice.)

.pr_17;1,x;area;;;1;1;2;;;;;1-1.     (Print second page of text changed by
                                      notice for logic condition override, to
                                      user's current device, no initialization
                                      and notice 1 to be printed.)
```

```
blank line                          (Exit input mode)
```

Each page changed by the notice will be printed as shown above.

```
.stor.                              (Editing work saved, enter system mode.)
```

Step 4. Execution Instructions - (Before Posting).

```
.new_(n00009650.00);ge9660.         (Create the duplicate copy to contain the
                                     previous version of the guide.)

2.2                                 (Enter description of work activity.)

.du_(cegs09650.00).                 (Duplicate the cegs document.)

.rr.                                (Resolve references.)
```

NOTE: Punctuation flags should be selected, i.e., .fc_99;1., .fc_98;1., etc.)

```
.stor.                              (Editing work saved, enter system mode.)

.acce (n00009650.00);;all           (Grant all users read access.)

.exec (i00109650.00).               (Execute the production instruction document.)

.logof.                             (logoff the system.)
```

Step 5. List the second print data set and make into a permanent data set. Review the notice. After approval of the notice, the following commands may be issued.

```
.delete_(u000109650.00).            (Delete the notice cover page document.)

.delete_(i00109650.00).             (Delete the production instruction
                                     document.)

.udme_(cegs09650.00);(      ).      (Send the update message to all creators of
                                     documents referencing this document.)
```

Step 6. Day before Posting.

```
.edit_(cegs09650.00);;1.            (Edit the cegs document with the external
                                     reference override switch set to 1.)

2.2                                 (Enter description of work activity.)

.po_(work09650.00).                 (Post the work copy to the cegs document.)

.gs_(.pr_16;1,x;void,not1;;1;1;1;;;;;;1-1.).
                                    (gs the guide.)

.stor.                              (Editing work saved, enter system mode.)
```

```
.delete (work09650.00).          (Delete the work copy.)

.arch_ge9660.                    (Archive the data set that contains the
                                  previous version of the guide.)
```

NOTE: This dataset is repeatedly used for all notices applicable to the guide; therefore, at least 2 hours before the preparation of the next notice, user must retrieve this data set back from archive storage.

Notice 2 December 1981

Notices in force: As listed in paragraph 3. (N1 and N2 with basic provide all current pages.)

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS

CEGS-14250
Notice 2
December 1981

CORPS OF ENGINEERS GUIDE SPECIFICATION
MILITARY CONSTRUCTION

ELEVATORS, HYDRAULIC

In bringing guide specifications up to date, three categories of actions are used, as follows:

Notice. This category is used chiefly to distribute changes made to bring references up to date but may also include minor technical changes for which coordination with industry is not required.

Change. This category comprises one or more replacement pages used to distribute changes that have been fully coordinated, including any necessary coordination with industry. Previous notices are incorporated.

Revision. This category describes a complete revision, in which all pages of a guide specification are brought up to date and republished, hereinafter referred to as a basic specification.

In addition to replacement pages issued as changes, notices for this guide specification are now issued as replacement pages. On notice pages, lines containing changes made since the last formal issue of the page, whether basic or change, are preceded by the number, in parentheses, of the last notice by which the line was changed. On change pages, asterisks appear before lines containing revisions of the previous formal issue of the page or before and after added or completely revised paragraphs and subparagraphs.

As with formal page changes, notices in this form are not cumulative, and pages herein should be retained until a replacement page of later date, either change or notice, is issued. Below is a list of current replacement pages for the January 1980 issue of CEGS-14250. C designates a change page as described above, for a page of the basic specification, N a notice page for a page of the basic specification, and C/N a notice page for a change page.

| Page | Marked | Date |
|---|---|---|
| 1 | N2 | Dec 81 |
| 5 | N1 | Nov 80 |



Figure 10.1. Notice Cover Page.



Preceding page blank

## PROCEDURE 11

## PROCEDURE FOR PREPARING PROJECT AMENDMENTS AND CHANGE ORDERS

1. GENERAL DESCRIPTION.

All text contained in both amendments and change orders can be prepared in EDITSPEC. The procedure for both activities are the same.

2. PROCEDURES.

Before preparing the first amendment or change order to a project, the project set cycle number (.pscn) command must be issued to set the cycle number to zero. For illustrative purposes assume Amendment 1 for project 99mx is ready to prepare.

a. Specification Changes. The specification text is corrected in each project section document. The .nn command will be entered to designate the lines changed by the amendment (change order). When all the project section documents have been corrected the amendment (change order) can be prepared.

b. Amendment (Change Order) Cover Page. A new project document must be created to contain the unique text of the cover page. The first four character project identifier for this document is the identifier of the project for which the amendment (change order) is being prepared (99mx). The fifth and sixth characters will be an "au" ("cu" for change orders). The last characters will be the sequentially numbered amendment (change order) being prepared (01). The first line of this document will always contain the definition of the amendment (change order) footer to be right justified on the same line as the page number. The operator will enter the amendment (change order) text for this issue (Figure 11.1). The data set name used to store the complete amendment (change order) is the four character prefix of the project (99mx) followed by the letters "co".

c. Production Instructions. A new document will be created to contain all production instructions to the EDITSPEC system. The document name will be the same as above except the fifth and sixth letters will be "ap" ("cp" for change orders). The last characters will be the sequentially numbered amendment (change order) being prepared. The operator will issue the input command and add all printing instructions. The first .edit, .pr, and .stor will print the amendment (change order) cover page. Apply one set of .edit, .bp, bn, and .pr commands for each sequential specification change required.

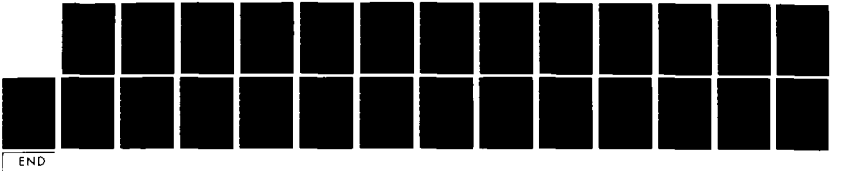
d. Execution Instructions. Apply the .exec command to produce the complete amendment (change order). The cover pages and production instructions document may be deleted after publication.

3. COMMANDS.

Example of commands (with an explanation of each command) required for each document is as follows.

AD-A124 203 EDITSPEC: BASIC PROCEDURES MANUAL(U) CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL E S NEELY 15 NOV 81 DOD/DF-83/002A 2/2

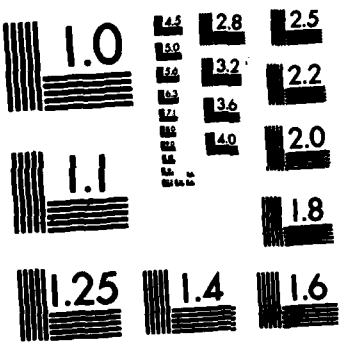
UNCLASSIFIED F/G 9/2 NL



END

FILMED

DTIC




MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Step 1. Specification Changes.

```
.pscn_(99mx)**.                    (Reset the cycle number to 0 for the
                                    complete project)
```

NOTE: The above command is done once for the first amendment. The command is issued again for the first change order.

```
.edit_(99mx04200.00).              (Edit the first section involved by
                                    the amendment)

2.2                                (Enter description of work activity)

.nn_1.                             (Notice number set to 1 for
                                    amendment 1)

(change text as required)

.stor.                             (Editing work saved, enter system mode)

.edit_(99mx09650.00).              (Edit the next section)

2.2                                (Enter description of work activity)

.nn_1.                             (Notice number set to 1 for
                                    amendment 1)

(change text as required)

.stor.                             (Editing work saved, enter system mode)
```

NOTE: Edit all the sections changed by the amendment, set each notice number to 1, and change the text as required.

Step 2. Amendment Cover Page.

```
.dscr_99mxco;150.                  (Create a data set with the project
                                    prefix followed by "co" large enough
                                    to store the complete amendment)

.new_(99mxau01);99mxco.            (Cover page document created on data
                                    set 99mxco with an immediate edit)

2.2                                (Enter description of work activity)

.en_;/*fs_(0001)3*/.               (Enter the amendment number in the
                                    footer storage)

.in.                               (Enter input mode)

(enter the amendment cover)
```

```
blank line                              (Exit input mode)

.en_;?*rf_/**rj(Am-1)**/*?.             (Redefine the footer)

.stor.                                  (Editing work saved, enter system mode)
```

Step 3. Production Instructions.

```
.new_99mxap01;99mxco.                   (Production instruction document
                                         created on data set 99mxco with an
                                         immediate edit)

2.2                                     (Enter description of work activity)

.in.                                    (Enter input mode)

.edit_99mxau01._ _ 2.3.                 (Print with text and line number
.pr_28;1,x;;;;;1.                        columns to users current device, the
.stor.                                   cover page)

.edit_(99mx04200.00)._ _ 2.3.           (Reset paragraph and page number in
.bp_1;_ _ _.                             the first section of the changed
.bn_26;_;_ _ _.                          text)

.pr_27;1,x;area;;;1;1;2;;;;;1-1.        (Print first page of text changed by
                                         amendment for logic condition
                                         override, to user's current device,
                                         no initialization and notice 1 to be
                                         printed)

.bp_1;_ _ _.                            (Reset paragraph and page number for
.bn_26;_;_ _ _.                          the second page of the amendment in
                                         the same document)

.pr_27;1,x;area;;;1;1;2;;;;;1-1.        (Print second page of text)
.lt_cont;1.                             (Print the table of contents number 1)

.stor.                                  (Editing work saved, enter system mode)

.edit_(99mx09650.00).                   (Edit the next section changed by the
                                         amendment)

2.2                                     (Enter description of work activity)

.bp_1;_ _ _.                            (Reset paragraph and page number for
.bn_26;_;_ _ _.                          the first page in this section
                                         changed by the amendment)

.pr_27;1,x;area;;;1;1;2;;;;;1-1.        (Print first page of this section)
```

NOTE: Each page of each section of the amendment will be printed as shown above.

Step 4. Production Instruction Execution.

.exec_99mxap01. (Execute the production instruction document)

NOTE: List the second print data set and make into a permanent data set.

Step 5. Review the Amendment.

After publishing delete the Amendment Cover Page and Production Instruction documents.

.dele_99mxau01.
.dele_99mxap01.

BIDDERS ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT ON THE BID FORM, IN THE SPACES PROVIDED, OR BY SEPARATE LETTER OR TELEGRAM PRIOR TO OPENING OF BIDS. FAILURE TO ACKNOWLEDGE ALL AMENDMENTS MAY CAUSE REJECTION OF THE BID.

DEPARTMENT OF THE ARMY
Huntsville Division, Corps of Engineers
PO Box 1600
Huntsville, Alabama 35807

NOTICE TO BIDDERS 80 Apr 17

Amendment No. DACA87-80-B-0053-0001

Invitation for Bids No. DACA87-80-B-0053 for Construction of Load, Assemble, and Pack (LAP) Facilities at Mississippi Army Ammunition Plant, Bay St. Louis, Mississippi is amended in the following respects:

Delete The Following Pages — Substitute The Following Inclosed Pages (Am-1)

SPECIFICATIONS

VOLUME I

| | |
|---|---|
| TABLE OF CONTENTS | |
| A, B | A(Am-1), B(Am-1) |
| INFORMATION FOR BIDDERS | |
| IFB-3, IFB-4<br>IFB-7, IFB-8 | IFB-3(Am-1), IFB-4<br>IFB-7(Am-1), IFB-8(Am-1) |
| BID FORM | |
| BF-1, BF-2 | BF-1(Am-1), BF-2<br>BF-2A(Am-1), BF-2B(Am-1) |
| BF-5, BF-6<br>BF-7, BF-8 | BF-5, BF-6(Am-1)<br>BF-7(Am-1), BF-8 |
| INDEX OF GENERAL PROVISIONS | |
| 3 | 3(Am-1) |
| GENERAL PROVISIONS | |
| 49 | 49, 50(Am-1) |

/** (Am-1) **/



(0004)

Figure 11.1. Amendment (Change Order) Cover Page.

## PROCEDURE 12

## SPECIFICATIONS WRITING WITH EDITSPEC TEXT EDITING SYSTEM

### 1. GENERAL.

The guidance contained herein is provided to furnish the engineer with one method of applying EDITSPEC text editing procedures to production of project specifications. No attempt has been made to cover all options.

### 2. WORKING COPY.

The draft copy of the guide may consist of a "list text print", a "print 2", or a formatted copy. Two versions (C1 listing - list text print and D1 listing - formatted print) are created whenever a new guide or changes to an existing guide are made. This is the most economical method of obtaining a working copy of a guide. Other versions of the guide are obtained by entering the appropriate command. The list text print is an unformatted copy of the guide, with the exception of tables which are formatted, without paragraph numbers, containing computer codes. Generally the list text print is more difficult for the engineer to use and easier for the terminal operator. The print 2 consists of a semi-formatted copy of the guide, which contains a few computer codes. The print 2 is less difficult than the list text print for the engineer to use but more difficult for the terminal operator. The formatted copy is the same as the printed guide and is easiest for the engineer to use. However, its use requires transfer of revisions to the list text print or print 2 for use by the terminal operator. List text print includes flag list. Flag list must be requested with print 2 and cannot be used with formatted copy. Technical notes occur, after paragraph to which they apply and at the end of guides in list text print and print 2. Notes occur at the end of guides only in formatted copy.

### 3. PREPARATION OF PROJECT SECTION.

Marking of the guide from EDITSPEC for a project is nearly identical to the previous methods used by specification writers. Inapplicable text is marked out, new text is inserted in the appropriate location.

a. Flags. Within the text of the guide, the specification writer will encounter commands of the form "*f123;$phrases of guide text$*". These commands are called flags, and each flag is defined in the flag table preceding the guide text. Flags permit the engineer to mark a selected phrase at one location and have that phrase selected throughout the guide wherever the same choice of phrases occurs. Flags also permit the terminal operator to make desired changes easily without repeating commands. As each flag is encountered while reading the guide, the specification writer should refer to the flag table and make the desired choice of words for the flag number, or 'flag id' encountered. For example, where the following text is encountered:

```
30700  Mortar for structural-clay-facing-unit or prefaced concrete /
30800  masonry-unit wainscots shall be cement of one brand and aggregates
30900  from one source, 100 percent passing the No. 8 sieve.
31000  Pointing mortar in *fl17;$showers and kitchens$* shall contain
31100  amonium stearate, or aluminum tri-stearate, or calcium stearate
31200  in an amount equal to 3 percent by weight of cement used. /
```

The specification writer refers to the flag table and circles the appropriate flag choice (FCN)

```
SINGLE CHOICE FLAG ID =  17
LOCATED ON OR NEAR LINE NUMBERS 31000
*** FCN      1    showers /
*** FCN      2    kitchens /
*** FCN      3    showers and kitchens /
*** DES          mortar application
```

Some flags are designated as multiple-choice flags in the flag table, and consist of a list of choices plus the appropriate punctuation and connecting word. The designer may select any number of choices in a multipe-choice flag, but will not select the punctuation or connecting word. The selected choice or choices will be inserted in the text in place of the internal flag command when the section is printed. Flags marked out of the guide text must be marked out of the flag table.

b. Other Internal Commands. Internal commands other than flags are used. Like flags, other internal commands are enclosed in asterisks. These commands are usually used for the purposes of; automatic numbering of paragraphs, pages, and sections; formatting of paragraphs, tables, headers, and footers; copying text from other locations; and indexing. Internal commands are executed when the camera ready copy is printed.

c. Keywords. Before writing any project unique text, specification writer should produce a list of project design conditions that are not covered in the guide. Each item in the list should have a keyword that briefly, accurately describes the condition. The operator will use the keywords to search an index of documents that contain project unique text with the same keywords. Specification writer may review the text and decide if it can be applied to the project.

d. Text insertion. The working copy will be marked for insertion of project unique text. Instructions to terminal operator should accurately describe both the old and new locations of text. Instructions should be in the following forms:

"Copy lines 700-1500 from cegs 03414 and insert after line 1400."
"Insert attached text after line 3500."

4. REVIEW DRAFT (IF REQUIRED).

Using EDITSPEC, some districts, but not all, use a typed review draft in final form. After the working copy has been marked up, flags selected, and project unique text developed, the terminal operator produces a draft section for review. Draft is printed as camera-ready copy containing line numbers. Specification writer will review the draft, mark changes, and

5. RESOLUTION OF REFERENCES AND PRINTING.

Before a project document is sent to print, it consists almost entirely of commands that copy text from other documents such as the guide specification and the master list of reference publications. Since these reference documents can be updated at any time, the project section must be changed to a stand-alone state at the time the document is sent to print. The terminal operator will issue a command to resolve external references, and the project section will be changed from copy commands to actual project text. At that point, the text is no longer automatically updated. External references should not be resolved until the project is ready for advertising.

6. INCORPORATION OF NOTICES.

At some point prior to printing the camera-ready copy for a section, the specification writer may be notified that a notice is being issued to the guide specification from which the project is being produced. If no action is taken, the notice will be automatically posted in the section of project specifications. *If the specification writer decides not* to incorporate the notice in the project section, instructions should be given to the terminal operator see other procedure.

## PROCEDURE 13

## SPECIFICATIONS WRITING WITH AUTOMATIC GENERATION

1. GENERAL.

The guidance contained herein is provided to furnish the engineer with one method of automatically generating project specifications using EDITSPEC. No attempt has been made to cover all options.

2. DESIGN CONDITION SECTION CHECKLIST.

The design condition checklist for each section gives design conditions that must be considered to produce a project specification section from a guide specification. The checklist is used in conjunction with a working copy of the guide specification and should be requested at the time the working or draft copy is requested.

3. WORKING COPY.

The working copy consists of guide text that is identified by pull identification numbers (ids). The pull ids are directly related to the numbered conditions in the design condition checklist. The purpose of the working copy is to provide the specification writer with reference points for insertion of project unique text, and the terminal operator with reference points (pull ids) for changing text after the project has been generated. If no unique text is needed and the writer does not wish to see the complete CE guide, a working copy will not be necessary.

4. PREPARATION OF PROJECT SECTION.

The checklist will be marked as described below, and the working copy reviewed to ensure that the guide covers all design conditions applicable to the project.

a. Checklist Instructions: One of the following actions is required for each checklist condition number.

(1) Mark with a check mark if the design condition is selected.
(2) Mark with an "X" if the design condition is rejected.
(3) Leave unmarked if it is unknown whether or not the design condition will be selected.

An asterisk (*) preceding a condition number indicates that the designer must provide additional information if that condition is checked.

Designer will ignore instructions to terminal operator, given in the form of "f1" or line numbers enclosed in parentheses.

If project is in concept stage, designer may leave some conditions unmarked until it is known whether or not the design conditions involved will exist in the completed design. Text for unmarked conditions will be provided for review.

If project is in final design stage, designer will mark all design conditions on the list. Revisions to checklist markings should be made in a manner that preserves the original markings to permit tracking the history of the specification development.

b. Text Insertion. It will be necessary to mark the working copy for insertion of project unique text. Instructions to Terminal Operator should accurately describe both the old and new locations of text.

c. Storage of Unique Text. Sections, paragraphs, and other segments of text which may be needed in the future and which are not contained in CE guide specifications should be stored in a separate document or documents. These sections, paragraphs, and text segments may then be used repetitively in the future as though they were CE guides.

d. Applicable Publications. No review of the reference publications is required unless new publications not covered by the guide are added. The publications are keyed to the correct text and are constantly updated in the master list of reference publications.

5. REVIEW DRAFT (IF REQUIRED).

Using EDITSPEC, some districts, but not all, use a typed review draft in final form. After the checklist and working copy have been marked, the terminal operator generates the draft section for review. Draft is printed as camera-ready copy containing line numbers. Specification writer will review the draft and the checklist, mark changes on draft or checklist if required, and submit for production of final camera-ready copy. Camera-ready copy may or may not carry line numbers.

6. RESOLUTION OF REFERENCES AND PRINTING.

Before a project document is sent to print, it consists almost entirely of commands that copy text from other documents such as the guide specification and the master list of reference publications. Since these reference documents can be updated at any time, the project section must be changed to a stand-alone state at the time the document is sent to print. The terminal operator will issue a command to resolve external references, and the project section will be changed from copy commands to actual project text. At that point, the text is no longer automatically updated. External references should not be resolved until the project is ready for advertising.

7. INCORPORATION OF NOTICES.

At some point prior to printing the camera-ready copy for a section, the specification writer may be notified that a notice is being issued to the guide specification from which the project is being produced. If the specification writer decides not to incorporate a notice in the project section, instructions should be given to the terminal operator to stop posting at the desired notice number. If no action is taken, the notice will be automatically posted in the section of project specifications.

## PROCEDURE 14

## GUIDE SPECIFICATION ADAPTATION PROCEDURE

1. PURPOSE.

Guide Specifications may require up to three phases of development for use in EDITSPEC. Phase I, flag identification, is the minimum effort required to prepare the guide for text editing. Phase II, design condition identification, is the additional effort required to prepare a guide for automatic generation. Phase III, integration into the CAEADS system, will not be addressed, since CAEADS is still under development. The following procedure provides guidance and a standard method for adaptation of guide specifications under Phases I and II. Examples from various Corps of Engineers Guide Specifications are presented where clarification of an activity is necessary.

2. PHASE I - FLAGS.

Flags are phrases within guide text where a project designer would need to input information. Designer input may involve inserting data in a blank space or selecting one or more choices from a list of choices. Flags provide the flexibility to adjust the wording of a phrase, to list all combinations of items where a choice is required, or to insert data, without affecting the remainder of the guide specification. Flag development consists of two activities-marking internal flag commands in the guide, and preparing the flag table using edit flag commands.

a. Internal Flags: Phrases to be flagged will be marked in the following fashion: *flID;$text to be flagged$*. The asterisks will denote the exact beginning and exact end of the phrase. The ID will be an integer between 1 and 99. Flag ID's will be numbered sequentially as each new flag is encountered in the text. As each new internal flag is identified, an edit flag using the same flag ID must be written for incorporation in the flag table. If flags have been identified at an earlier date, additional flag ID's must be inserted out of sequence.

b. Edit Flags: The edit flag consists of three elements: ID, numbered choices, and a description. Each flag can have up to 99 choices with the description and choices limited to 200 EDITSPEC characters each. EDITSPEC characters are the same as typed characters, except a space counts as a character and a capital letter counts as two characters. In the list, each flag choice is separated from the following choice by a comma, and the last choice is followed by a semicolon and the description.

(1) Each flag choice will be worded, capitalized and punctuated exactly as the text should appear when it is printed in place of the internal flag.

(2) The flag description will be a concise statement that enables the designer to easily relate the choices to the location or function of that flag in the marked guide.

(3) A multiple choice flag should be used when many combinations of choices are possible, as in a list of items. Each item will be listed as a flag choice, the comma separating each item will be a choice, and the word connecting the last two items of the list will also be a choice. The comma and connecting word choices will be separated by a hyphen. During production of a project specification, the system will insert the comma, connecting word, or both in the correct sequence in the list.

(4) Flag Table: The list of edit flag commands is entered into the guide specification flag table. The system numbers each choice and lists the line number on which the corresponding internal flag appears in the guide. Each flag is identified as either a single-choice or multiple-choice flag by the system. When the table is listed for use by the project designer, each choice is listed separately to allow for easy selection of choices or to provide room for data insertion.

a. Examples:

(1) Single Choice Flags:

Internal Flag Marking: On *f16;$Concrete or Insulation$* Surfaces:

Edit Flag Command: .fl 6;(Concrete ),(Insulation ),(Concrete or Insulation );(type of roofing substrate ).

Form in Flag Table:
```
SINGLE CHOICE FLAG ID = 6
LOCATED ON OR NEAR LINE NUMBER 5100
*** FCN    1    Concrete /
*** FCN    2    Insulation /
*** FCN    3    Concrete or Insulation /
*** DES         type of roofing substrate
```

NOTE: A space is required at the end of each flag choice unless the first character in the text following the internal flag is a punctuation mark. The slash character in the table is placed by the computer after the last EDITSPEC character of the choice and verifies the existence of the trailing space.

(2) Multipe Choice Flags:

Internal Flag Marking: *f15;$Cants, Crickets, Curbs, and Fills$*:

Edit Flag Command: .fl 5;(Cants),(Crickets),(Curbs),(Fills),(, )-( and );(roofing materials)

Form in Flag Table:
```
MULTIPLE CHOICE FLAG ID:  5
LOCATED ON OR NEAR LINE NUMBER 11520
*** FCN    1      Cants/
*** FCN    2      Crickets/
*** FCN    3      Curbs/
*** FCN    4      Fills/
*** FCN    100    , /
*** FCN    200    and /
*** DES           roofing materials
```

(3) Data Insertion Flags:

Internal Flag Marking: capacity of *fl2;$.....$* gallons per minute

Edit Flag Command: .fl 2;(..... ); (condensate pump capacity, gpm).

3. PHASE II - DESIGN CONDITIONS.

Design conditions are those conditions that must be considered by a designer when writing a project specification. For EDITSPEC purposes, a checklist will be produced that lists all design conditions covered by a guide specification. Each condition will be assigned a condition number. The condition number will be used to identify text that should be pulled from the guide specification and placed into a project specification when that condition exists.

a. Checklist: Each design condition will be a numbered, unique statement that requires a project designer to decide if that condition does or does not exist for the project. The first statement will always be the control condition used to identify text phrases that are used in every project specification. All other statements will be listed in the same general order as a designer would encounter the conditions during a project design, starting with conditions of higher priority and ending with conditions of a lower priority.

(1) Flags that require data insertion will be incorporated into a related design condition or will be included in a separate statement that specifies the exact type of data required, including units of measure if applicable. An asterisk will precede the condition number for statements that require data insertion. The flag ID for blank flags will be enclosed in parentheses at the end of the statement to alert the terminal operator. The statement will include a slash after the blank if punctuation follows the blank in the text, since the terminal operator will type a space after the data insertion if punctuation is not shown.

(2) Tables that require data insertion can be handled in a checklist by providing the specification writer with the spaces to fill in and providing the terminal operator with a copy table (CT) command to use when editing the project. The CT command is obtained after pull commands for the guide have been issued, and is of the form: (.ct ; pull id of 0 table column.)

(3) Reference publications should not be included in checklist statements. Such references require documentation for notice updating purposes--a problem that should be avoided whenever possible.

b. Text Identification: Each line, phrase, paragraph number and punctuation mark must be under control of at least one design condition before it can be pulled from a guide specification and placed in a project specification. To establish this pull control, the guide text is identified by marking the appropriate design condition number next to the text phrase that will be pulled by that condition. Any text phrase or body of text that is controlled by a set of design condition numbers is called a pull.

(1) Flag Pulls: Each choice listed for each flag ID in the flag table prepared during Phase I is a pull, and will be assigned the appropriate condition numbers. Flag pulls are identified in the PULL command by flag ID and flag choice number.

EXAMPLE-MARKING INTERNAL FLAGS

*fl1;$

2. GENERAL: Metal toilet partitions including toilet enclosures, room entrance screens, and urinal screens, shall conform to the layouts shown. At the locations indicated, anchorage to walls shall be by through-bolting. Color of panels shall be _____ as selected from the manufacturer's standard colors.

*fl2;$ *fl3;$.....$

EXAMPLE - MARKING FLAG CHOICES

```
MULTIPLE CHOICE FLAG ID=   1
*** FCN    1     toilet enclosures/
*** FCN    2     room entrance screens/
*** FCN    3     urinal screens/
*** FCN    100   , /
*** FCN    200    and /
*** DES          toilet partition type


SINGLE CHOICE FLAG ID=     2
*** FCN    1     through-bolting/
*** FCN    2     toggle-bolting/
*** FCN    3     through-bolting and toggle bolting/
*** DES          wall anchorage

SINGLE CHOICE FLAG ID=     3
*** FCN    1     ..... /
*** DES          partition color
```

FLAG PULLS

(2) (3) (4) (12) (13) (12)(13) (5)

(2) Line Pulls: Line pulls may be text phrases of any length, and are identified in the EDITSPEC PULL command by line numbers. Pulls that occur within a line or a paragraph will be separated from preceding and following pulls by slash marks, and the appropriate design conditions will be written directly above or otherwise clearly related to the text to be pulled. Longer bodies of text such as paragraphs will be bracketed in the margin, with the condition numbers next to the bracket.

EXAMPLE-MARKING TEXT LINES

LINE PULLS

(2) *fl4;$

/4. TOILET ENCLOSURES shall conform to Fed. Spec. RR-P-1352, Type I, Style [A] [B] [C]. Width of toilet enclosures shall be as shown. Finish surface of panels shall be baked enamel. /Panels indicated to receive toilet paper holders or grab bars, as specified in SECTION: TOILET ACCESSORIES shall be reinforced for the reception of the items required./

(14) (15)

*fl5;$

5. ROOM ENTRANCE SCREENS shall conform to Fed. Spec RR-P-1352, Type II, Style A. Finish surface of screens shall be baked enamel. Length and height of screens shall be as shown.

6. URINAL SCREENS shall conform to Fed. Spec. RR-P-1352, Type III, Style [A] [D]** Finish surface of screens shall be baked enamel. /Style A screens shall be [24] [36] inches wide./

(3) Row and Column Pulls: Condition numbers for each table column will be marked above the column header. Condition numbers for each row will be marked to the left of the row. Both the row and column conditions must be satisfied before a table position is pulled. If none of the positions under a column are pulled, the header for that column will not be pulled. Table text is identified in the PULL command by column and row number.

TABLE II. FIRE-RATED MASONRY UNITS

| Aggregate Type | Minimum Equivalent Thickness in Inches for Fire Rating of: 4 hours | 3 hours | 2 hours |
|---|---|---|---|
| Pumice | 4.7 | 4.0 | 3.0 |
| Expanded slag | 5.0 | 4.2 | 3.3 |
| Expanded clay, shale, or slate | 5.7 | 4.8 | 3.7 |
| Limestone, scoria, cinders or unexpanded slag | 5.9 | 5.0 | 4.0 |
| Calcareous gravel | 6.2 | 5.3 | 4.2 |
| Siliceous gravel | 6.7 | 5.7 | 4.5 |

a. Rules for Assigning Condition Numbers: The following rules represent the design capability and limitations of EDITSPEC in regard to pulling of text.

(1) When several conditions can be applied to the same line, flag, column, or row pull, they are classified as either dependent or independent and marked in the guide text as follows:

(a) Dependent - all of the conditions must exist before the phrase is pulled. Condition numbers are not separated by commas.

EXAMPLE - DEPENDENT CONDITIONS

14.1 Perimeter Felt Joints: Construction joints between interior slabs on grade and vertical surfaces shall consist of 30-pound asphalt-saturated felt, extending for the full depth of the slab. The perimeters of the slabs shall be free of fins, rough edges, spalling, or other unsightly appearance.

(b) Independent - any one of the conditions will pull the phrase. Condition numbers are separated by commas.

EXAMPLE - INDEPENDENT CONDITIONS

(43),(44) 12. Perimeter Insulation: Perimeter insulation shall be applied with adhesive to the interior surface of foundation walls, extending from the underside of the slab to the depth indicated.

(c) Negative dependent - all of the conditions must not exist before the phrase is pulled. First condition number is preceded by a minus sign (-), condition numbers are not separated by commas.

(d) Negative independent - any one of the conditions must not exist for the phrase to be pulled. First condition number is preceded by a minus sign ( - ), and all condition numbers are separated by commas.

(e) Dependent and independent marking cannot be used on the same pull.

(f) Positive and negative marking cannot be used for the same pull.

(2) Where flag choices are pulled by dependent conditions, the first choice listed for the flag must have the least number of dependent conditions and the last choice must have the highest number of dependent conditions.

EXAMPLE - PULLING FLAG CHOICES
WITH DEPENDENT CONDITIONS

| Flag ID | Flag Choice Number | | Design Condition |
|---|---|---|---|
| 5 | 1 | Precast Gypsum | (6) |
| | 2 | Cast-In-Place Gypsum | (7) |
| | 3 | Insulating Concrete | (8) |
| | 4 | Precast Gypsum or Cast-In-Place Gypsum | (6)(7) |
| | 5 | Precast Gypsum or Insulating Concrete | (6)(8) |
| | 6 | Cast-In-Place Gypsum or Insulating Concrete | (7)(8) |
| | 7 | Precast Gypsum, Cast-In-Place Gypsum or Insulating Concrete | (6)(7)(8) |

(3) Where a combination of both dependent and independent conditions is possible for a flag choice, the choice can be duplicated in the flag table so that each duplication is pulled by dependent conditions only. All the duplications can have the same flag choice number.

EXAMPLE - PULLING FLAG CHOICES WITH BOTH DEPENDENT AND INDEPENDENT CONDITIONS.

| Flag ID | Flag Choice Number | Design Condition |
|---|---|---|
| 7 | 1 Concrete | ④, ⑤ |
| | 2 Insulation | ②, ③ |
| | 3 Concrete or Insulation | ② ④ |
| | 3 Concrete or Insulation | ② ⑤ |
| | 3 Concrete or Insulation | ③ ④ |
| | 3 Concrete or Insulation | ③ ⑤ |

(4) Internal flags (within the text) are pulled by line pulls. Choice from the edit flag (within the flag table) are pulled only if the line containing the corresponding internal flag is pulled.

a. PULL Command: This command is the final link in relating guide text to design conditions in the checklist. After the text is completely identified, the terminal operator separates the text, beginning text on a new line wherever slash marks are encountered in the markup. Each line is numbered by the computer and a text listing is printed for use in coding of PULL commands. A PULL command is written for each pull encountered in the text. The coding identifies positive or negative; and where the text was stored. The order in which the PULL commands are listed determines the order in which pulls are printed in a project. In the PULL command list, all the column pulls for a table must be listed before the row pulls. A table header is pulled using a column pull for a zero (0) column. The comma and connecting word choices for a multiple choice flag are pulled using a flag pull for a zero (0) flag choice number, and using condition 1.

(1) Evaluation Mode: The various classes of pulls are assigned evaluation mode numbers in the pull command as follows:

Independent conditions - 0
Dependent conditions - 1
Negative independent conditions - 2
Negative dependent conditions - 3

(2) Type of Text: The various types of text are assigned the following letters in the pull command:

Text lines - l
Text flags - f
Table columns - c
Table rows - r

b. Checkout. After entering pull commands into the guide specification the user should list the pulls and check them against the text to ensure that no typing errors have been made. The PLTX table has been developed for checkout purposes.

c. Logic Conditions: Related text phrases from different documents or from within a document can be tied together using the LOGIC CONDITION command. In automatic generation, a project spec writer would be alerted if he tried to use one text phrase that is logically connected to another phrase. Logic conditions also have applications to Phase III of EDITSPEC development.

d. SPEC Command: After each guide specification has been completely marked for automatic text pulling, the computer must be informed of the total number of design conditions defined in the checklist. The SPEC command using the last 8 characters of the guide name and the "add" option is used to define the total conditions. In the event that a notice change affects the number of conditions in the checklist, the old number of conditions will be changed using the SPEC command.

e. Example. An example of guide CEGS10160.00 follows. The example shows the text marked for flags and pulls (Figure 14.1), the checklist (Figure 14.2), instructions for completing the checklist (Figure 14.3), a listing of text after the operator breaks out the pulls (Figure 14.4), and the pull commands (Figure 14.5). The listing of text is not the version that will be used by a project specification writer, but will be used for reference by the user who writes the pull commands.

4. GENERAL IDENTIFICATION

a. Master Chronological List. This list is a table that contains a list of applicable publications and guide specifications in the order issued. The document name is REFEMASTERCL. Applicable publications for guides are copied from this document.

b. Master Index. The document CEGSMASTERIX, or EP 310-1-5, consists of *CT* commands copying from REFEMASTERCL. In the master index, guide specifications are listed in numerical order of document numbers. Applicable publications are also listed in a definite order for publication purposes.

c. Master Printing Order. The document CEGSMASTERSP consists of *CO* commands, each of which copies an entire guide specification. The order in which the guide specs are copied into MASTERSP determines the printing order of sections when a project specification is produced using the PRINT PROJECT COMMAND.

d. Master Design Conditions. Design conditions should be written defining when each document listed in the MASTERSP will be required in a project. The total number of conditions will be defined using the command: .spec mastersp;a;number.

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS

Notice 3
November 1978

CEGS-10160
March 1977
Superseding
CE-10160
October 1974

CORPS OF ENGINEERS GUIDE SPECIFICATION
MILITARY CONSTRUCTION

SECTION 10 ____ (A)

METAL TOILET PARTITIONS

(3) (3) (3) (3) 1. APPLICABLE PUBLICATION: The Federal Specification (Fed. Spec.) listed below forms a part of this specification to the extent referenced. The publication is referred to in the text by the basic designation only. (B)

(2) (3) RR-P-1352A & Am-2 Partitions, Toilet, Complete.

2. GENERAL: Metal toilet partitions, including toilet enclosures, room entrance screens, and urinal screens, shall conform to the layouts shown. At the locations indicated, anchorage to walls shall be by through-bolting. Color of panels shall be _____, as selected from the manufacturer's standard colors. (C)

3. SHOP DRAWINGS: Shop drawings shall be submitted for approval in accordance with the SPECIAL PROVISIONS. Shop drawings shall show plans, elevations, details of construction, gages of metal, hardware, reinforcing, fittings, mountings, and anchorings.

4. TOILET ENCLOSURES shall conform to Fed. Spec. RR-P-1352, Type I, Style [A] [B] [C]. Width of toilet enclosures shall be as shown. Finish surface of panels shall be baked enamel. Panels indicated to receive toilet paper holders or grab bars as specified in SECTION: TOILET ACCESSORIES shall be reinforced for the reception of the items required. (D,E)

5. ROOM ENTRANCE SCREENS shall conform to Fed. Spec. RR-P-1352, Type II, Style A. Finish surface of screens shall be baked enamel. Length and height of screens shall be as shown. (F)

6. URINAL SCREENS shall conform to Fed. Spec. RR-P-1352, Type III, Type [A] [D]. Finish surface of screens shall be baked enamel. Style A screens shall be [24] [36] inches wide. (G)

7. INSTALLATION: Toilet partitions shall be installed straight and plumb with all horizontal lines level and rigidly anchored to the supporting construction. Drilling and cutting for installation of anchors shall be at locations that will be concealed in the finished work. Doors shall have a uniform vertical edge clearance of approximately 3/16 inch and shall rest open at approximately 30 degrees when unlatched. Baked enamel finish shall be touched-up with the same type and color of paint that was used for the finish. Toilet partitions shall be cleaned and protected from damage until acceptance.

Figure 14.1. Guide Specification

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS

CEGS-10160
August 1981
Superseding
CEGS-10160

Notice 3
December 1978

CONCEPT DESIGN .....

FINAL DESIGN .....

CHECKLIST -- CEGS-10160 -- METAL TOILET PARTITIONS

| Condition Number | DESIGN CONDITIONS |
|---|---|
| 1 | Control Condition (No Action Required) |
| | Toilet Partition Type: |
| 2 ..... | Toilet Enclosure |
| 3 ..... | Room Entrance Screen |
| 4 ..... | Urinal Screen |
| * 5 ..... | Partition Color: ...../ (f12) |
| | Toilet Enclosure Style: |
| 6 ..... | Floor-Supported (Style A) |
| 7 ..... | Ceiling-Hung (Style B) |
| 8 ..... | Overhead-Braced (Style C) |
| | Urinal Screen Style: |
| 9 ..... | Floor-Supported, 24-Inch Width |
| 10 ..... | Floor-Supported, 36-Inch Width |
| 11 ..... | Wall-Hung (Style D) |
| | Wall Anchorage: |
| 12 ..... | Through-Bolts |
| 13 ..... | Toggle Bolts |
| | Toilet Enclosure Accessories: |
| 14 ..... | Toilet Paper Holders |
| 15 ..... | Grab Bars |

THE END

Figure 14.2. Design Condition Checklist

INSTRUCTIONS FOR MARKING
DESIGN CONDITION CHECKLIST

Preparing the Project Specification Using Automatic Generation: Checklist will be marked as described below, and working copy will be reviewed to ensure that the guide covers all design conditions applicable to the project.

a. Checklist Instructions: One of the following actions is required for each checklist condition number:

(1) Mark with a check mark if the design condition is true.
(2) Mark with an "X" if the design condition is false.
(3) Leave unmarked if the design condition is unknown.

An asterisk (*) preceding a condition number indicates that the designer must provide additional information if that condition is checked.

Designer will ignore instructions to terminal operator, given in the form of "f1" or line numbers enclosed in parentheses.

Mark with a check the appropriate design stage. If project is in concept stage, designer may leave some conditions unmarked. Text for unmarked conditions will be provided for review. If project is in final design stage, designer will mark all design conditions on the list. Revisions to checklist markings will be made in a manner that preserves the original markings.

At the end of the checklist, add a list of conditions not covered in the guide specification. Each statement should be a key word that briefly describes the condition. The operator will use the key words to locate text used for similar conditions in different projects.

b. Text Insertion: Mark the working copy where project unique text will be inserted. Instructions to terminal operator should accurately describe by line number both the old and new locations of text to be inserted.

Figure 14.3. Instruction For Completing Checklist

Preceding page blank



```
SEGMENT ID   LINE NO.   NCH   TEXT
----------   --------   ---   ----
   proj            10     7   ^a13^ /
   proj            20    10   ^bp 1,0^ /
                   90    86   ^hs                                                    CEGS-10160 (March 1977)^ ^a1^ /
                  100    29   ^1j DEPARTMENT OF THE ARMY^ /
                  200    27   ^1j(-11) CEGS-10160^ ^a1^ /
                  300    39   ^1j OFFICE OF THE CHIEF OF ENGINEERS^ /
                  400    36   ^u^ ^1j(-11) March 1977^ ^ue^ ^a1^ /
                  500    28   ^1j(-11) Superseding^ ^a1^ /
                  600    25   ^1j(-11) CE-10160^ ^a1^ /
                  700    20   ^cj Notice 3^ ^a1^ /
                  800    26   ^cj December 1978^ ^a11^ /
                  900    50   ^cj CORPS OF ENGINEERS GUIDE SPECIFICATION^ ^a1^ /
                 1100    34   ^cj MILITARY CONSTRUCTION^ ^a14^ /
   not1          1110    15   ^rj (A)^ ^a1^ /
                 1200    20   ^cj SECTION .....^ /


   proj          1220     9   ^p2a26^ /
                 1230     7   ^a11^ /
                 1300    35   ^cj METAL TOILET PARTITIONS^ ^a1^ /
   not1          1310    26   ^a11^ ^rj (B)^ ^np^ ^a1^ /


                 1400    44   ^tc 1; ^p1^ APPLICABLE PUBLICATION^ :  The /
                 1500    70   Federal Specification (Fed. Spec.) listed below forms a part of this /
                 1600    73   specification to the extent referenced.  The publication is referred to /
                 1700    50   in the text by the basic designation only. ^a11^ /
                 1900    10   ^tb 250^ /
                 2000    51   ^ct (refemastercl);48;21900:100;1:1,2:2;50000099^ /
                 2100     6   ^te^ /

-50021900                     HR-P-1352A                Partitions, Toilet, Complete
-50021900                     & Am-2
-50021900
       0

   not1          2110    26   ^a11^ ^rj (C)^ ^np^ ^a1^ /


                 2200    60   ^tc 1; ^p1^ GENERAL^ :  Metal toilet partitions, including /
                 2300    92   ^f11 $toilet enclosures, room entrance screens and urinal screens$^ , shall conform to the /
                 2400    76   layouts shown.  At the locations indicated, anchorage to walls shall be by /
                 2500    90   ^f12;$through-bolting$^ .  Color of panels shall be ^f13 $.....$^ , as selected from the /
                 2600    34   manufacturer's standard colors.  /
   not2          2610    19   ^co ;3;7400-7900^ /
```

Figure 14.4. Working Copy (List Text).

```
                -7400                   C.  Paragraph 2:  Toilet partitions and
                -7500                   urinal screens in barracks, and other hard-usage areas,
                -7600                   as well as those partitions on which grab bars are to
                -7600                   be mounted, will be indicated to be bolted to walls.
                -7700                   Through-bolting will be specified for these
                -7800                   applications, except toggle bolts may be specified when
                -7800                   through-bolting would be exposed in a finished room or
                -7900                   would otherwise be unsuitable.


                 2700    64   *tc 1; *pl* SHOP DRAWINGS* :  Shop drawings shall be submitted /
                 2800    58   for approval in accordance with the SPECIAL PROVISIONS.  /
                 2900    76   Shop drawings shall show plans, elevations, details of construction, gages /
                 3000    72   of metal, hardware, reinforcing, fittings, mountings, and anchorings.  /
not1             3010    28   *all* *rj (D,E)* *np* *el* /


                 3100    50   *tc 1; *pl* TOILET ENCLOSURES * shall conform to /
                 3200    64   Fed. Spec. RR-P-1352, Type 1, Style *f14;$A] [B] [C$* .  Width /
                 3300    91   of toilet enclosures shall be as shown.  Finish surface of panels shall be baked enamel.  /
                 3400    71   Panels indicated to receive *f15;$toilet paper holders or grab bars$* /
                 3500    46   as specified in SECTION:  TOILET ACCESSORIES /
                 3600    63   shall be reinforced for the reception of the items required.  /
not2             3610    19   *co ;4;8000-9700* /

                -8000                   D.  Paragraph 4:  Metal toilet partitions
                -8100                   with an enamel finish are suitable for use in
                -8100                   installations where the partitions are subjected to
                -8200                   normal usage and exposure conditions.  Metal toilet
                -8300                   partitions will not be used where severe water
                -8300                   conditions will be encountered, such as where cleaning
                -8400                   is to be performed by spraying water.
                   0
                -8500                   E.  Paragraph 4:  Floor-supported enclosures,
                -8600                   Style A, will be used generally; and overhead-braced
                -8700                   enclosures, Style C, will be used when pilasters cannot
                -8700                   be anchored into structural concrete.  Ceiling hung
                -8800                   enclosures, Style B, will be used only when the
                -8900                   additional cost is justified for reasons of sanitation
                -8900                   or appearance.
                   0
                -9100                   Enclosure widths of 32 inches, 34 inches, and 36 inches
                -9200                   are readily available.  Except for enclosures without
                -9300                   doors, widths other than those mentioned will be
                -9300                   avoided.
                   0
                -9500                   This section will be coordinated with SECTION:  TOILET
                -9600                   ACCESSORIES and the drawings regarding toilet
                -9700                   enclosures which will have toilet paper holders and/or
                -9700                   grab bars attached to the panels.

not1             3620    26   *all* *rj (F)* *np* *el* /
```

Figure 14.4. Work Copy (List Text). Cont.

```
                3700    54  ^tc 1; ^p1^ ROOM ENTRANCE SCREENS ^ shall conform to /
                3800    60  Fed. Spec. RR-P-1352, Type II, Style A.  Finish surface of /
                3900    74  screens shall be baked enamel.  Length and height of screens shall be as /
                4000     9  shown.  /
not2            4010    20  ^co ;5;9800-10000^ /

 -9800                       F.  Paragraph 5:  Length and height of room
 -9900                       entrance screens will be shown on the drawings, using
-10000                       standard size panels and pilasters to the maximum
-10000                       extent practicable.

not1            4020    26  ^sll^ ^rj (G)^ ^np^ ^sl^ /


                4100    79  ^tc 1; ^p1^ URINAL SCREENS ^ shall conform to Fed. Spec. RR-P-1352, Type III, /
                4300    74  Style ^f16;$A] [D$^ .  Finish surface of screens shall be baked enamel.  /
                4400    56  Style A screens shall be ^f17;$24] [36$^ inches wide.  /
not2            4410    21  ^co ;6;10100-10600^ /

-10100                       G.  Paragraph 6:  A urinal screen between
-10200                       individual urinals is generally not necessary or
-10300                       desirable.  Use of urinal screens will be limited to
-10300                       those applications where sanitary protection is
-10400                       required, such as between a urinal and an immediately
-10500                       adjacent lavatory.  Wall-hung urinal screens will be
-10600                       used only where the supporting construction is masonry
-10600                       or concrete.


                4602    57  ^tc 1; ^p1^ INSTALLATION^ :  Toilet partitions shall be /
                4604    74  installed straight and plumb with all horizontal lines level and rigidly /
                4606    68  anchored to the supporting construction.  Drilling and cutting for /
                4608    93  installation of anchors shall be at locations that will be concealed in the finished work.  /
                4610    53  Doors shall have a uniform vertical edge clearance of /
                4612    90  approximately 3/16 inch and shall rest open at approximately 30 degrees when unlatched.  /
                4614    64  Baked enamel finish shall be touched-up with the same type and /
                4616    74  color of paint that was used for the finish.  Toilet partitions shall be /
                4618    54  cleaned and protected from damage until acceptance.  /
                4700     6  ^sp^ /
not1            4800    25  ^cj GENERAL NOTES^ ^sl^ /
not1            4900     8  ^bp 2^ /


not1            5000    77  ^p7n2^ This guide specification is to be used in the preparation of project /
not1            5100    73  specifications in accordance with ER 1110-345-720.  It will not be made /
not1            5200    77  a part of a contract merely by reference; pertinent portions will be copied /
not1            5300    40  verbatim into the contract documents.  /
```

Figure 14.4. Working Copy (List Text). Cont.

```
not1        5400    72   *p7n2* The capital letters in the right margins indicate that there is /
not1        5500    77   a technical note pertaining to that portion of the guide specification.  It /
not1        5600    82   is intended that the letters in the margins be deleted before typing the project /
not1        5700    18   specifications.  /

not1        5800    78   *p7n2* Where numbers, symbols, words, phrases, clauses, or sentences in this /
not1        5900    77   specification are enclosed in brackets [], a choice or modification must be /
not1        6000    78   made; delete inapplicable portion(s) carefully.  Where blank spaces occur in /
not1        6100    74   sentences, insert the appropriate data.  Where entire paragraphs are not /
not1        6200    54   applicable, they should be deleted completely. *sl4* /

not1        6300    27   *cj TECHNICAL NOTES* *sl* /
not1        6400     8   *bp 3* /

not1        6500    77   *pn* A.  The section number should be inserted in the specification heading /
not1        6600    62   and prefixed to each page number in project specifications.  /

not1        6700    75   *pn* B.  Paragraph 1:  The listed designations for publications are those /
not1        6800    72   that were in effect when this guide specification was being prepared.  /
not1        6900    76   These designations are updated when necessary by Notice, and references in /
not1        7000    77   project specifications need be no later than in the current Notice for this /
not1        7100    72   guide specification.  To minimize the possibility of error, the letter /
not1        7200    79   suffixes, amendments, and dates indicating specific issues should be retained /
not1        7300    70   in paragraph 1 and omitted elsewhere in the project specifications.  /

not1        7400    78   *pn* C.  Paragraph 2:  Toilet partitions and urinal screens in barracks, and /
not1        7500    76   other hard-usage areas, as well as those partitions on which grab bars are /
not1        7600    74   to be mounted, will be indicated to be bolted to walls.  Through-bolting /
not1        7700    70   will be specified for these applications, except toggle bolts may be /
not1        7800    71   specified when through-bolting would be exposed in a finished room or /
not1        7900    33   would otherwise be unsuitable.  /

not1        8000    74   *pn* D.  Paragraph 4:  Metal toilet partitions with an enamel finish are /
not1        8100    73   suitable for use in installations where the partitions are subjected to /
not1        8200    76   normal usage and exposure conditions.  Metal toilet partitions will not be /
not1        8300    80   used where severe water conditions will be encountered, such as where cleaning /
not1        8400    40   is to be performed by spraying water.  /

not1        8500    74   *pn* E.  Paragraph 4:  Floor-supported enclosures, Style A, will be used /
not1        8600    71   generally; and overhead-braced enclosures, Style C, will be used when /
not1        8700    70   pilasters cannot be anchored into structural concrete.  Ceiling hung /
not1        8800    68   enclosures, Style B, will be used only when the additional cost is /
not1        8900    53   justified for reasons of sanitation or appearance.  /
not1        9000     7   *sll* /
```

Figure 14.4.  Working Copy (List Text).  Cont.

```
not1          9100    81   Enclosure widths of 32 inches, 34 inches, and 36 inches are readily available.  /
not1          9200    77   Except for enclosures without doors, widths other than those mentioned will /
not1          9300    14   be avoided.  /
not1          9400     7   ^all^ /
not1          9500    56   This section will be coordinated with SECTION:  TOILET /
not1          9600    64   ACCESSORIES and the drawings regarding toilet enclosures which /
not1          9700    74   will have toilet paper holders and/or grab bars attached to the panels.  /


not1          9800    75   ^pn^ F.  Paragraph 5:  Length and height of room entrance screens will be /
not1          9900    72   shown on the drawings, using standard size panels and pilasters to the /
not1         10000    30   maximum extent practicable.  /


not1         10100    70   ^pn^ G.  Paragraph 6:  A urinal screen between individual urinals is /
not1         10200    70   generally not necessary or desirable.  Use of urinal screens will be /
not1         10300    70   limited to those applications where sanitary protection is required, /
not1         10400    75   such as between a urinal and an immediately adjacent lavatory.  Wall-hung /
not1         10500    71   urinal screens will be used only where the supporting construction is /
not1         10600    22   masonry or concrete. /
not1         10610     7   ^all^ /
not1         10700    10   ^cj END^ /
```

Figure 14.4. Working Copy (List Text). Cont.

PULL COMMANDS

| .pull ;; | evaluation mode | ; list of design conditions | ; type of text | ; starting line no. | ; ending line no. | ; text segment id. |
|---|---|---|---|---|---|---|
| .pull ;; | 0 | 2 | f | 1 | 1 | |
| .pull ;; | 0 | 3 | f | 1 | 2 | |
| .pull ;; | 0 | 4 | f | 1 | 3 | |
| .pull ;; | 1 | 2,3 | f | 1 | 4 | |
| .pull ;; | 1 | 2,4 | f | 1 | 5 | |
| .pull ;; | 1 | 3,4 | f | 1 | 6 | |
| .pull ;; | 1 | 2,3,4 | f | 1 | 7 | |
| .pull ;; | 0 | 12 | f | 2 | 1 | |
| .pull ;; | 0 | 13 | f | 2 | 2 | |
| .pull ;; | 1 | 12,13 | f | 2 | 3 | |
| .pull ;; | 0 | 5 | f | 3 | 1 | |
| .pull ;; | 0 | 6 | f | 4 | 1 | |
| .pull ;; | 0 | 7 | f | 4 | 2 | |
| .pull ;; | 0 | 8 | f | 4 | 3 | |
| .pull ;; | 0 | 14 | f | 5 | 1 | |
| .pull ;; | 0 | 15 | f | 5 | 2 | |
| .pull ;; | 1 | 14,15 | f | 5 | 3 | |
| .pull ;; | 0 | 9,10 | f | 6 | 1 | |
| .pull ;; | 0 | 11 | f | 6 | 2 | |
| .pull ;; | 0 | 9 | f | 7 | 1 | |
| .pull ;; | 0 | 10 | f | 7 | 2 | |
| .pull ;; | 0 | 1 | i | 10 | 20 | proj. |
| .pull ;; | 0 | 1 | i | 1220 | 1220 | proj. |
| .pull ;; | 0 | 1 | i | 1230 | 1300 | |
| .pull ;; | 0 | 1 | i | 1300 | 1700 | |
| .pull ;; | 0 | 1 | c | 1900 | 0 | |
| .pull ;; | 0 | 1 | c | 1900 | 1 | |
| .pull ;; | 0 | 1 | c | 1900 | 2 | |
| .pull ;; | 0 | 1 | r | 1900 | 100 | |
| .pull ;; | 0 | 1 | i | 2200 | 2600 | |
| .pull ;; | 0 | 1 | i | 2700 | 3000 | |
| .pull ;; | 0 | 2 | i | 3100 | 3300 | |
| .pull ;; | 0 | 14,15 | i | 3400 | 3600 | |
| .pull ;; | 0 | 3 | i | 3700 | 4000 | |
| .pull ;; | 0 | 4 | i | 4100 | 4300 | |
| .pull ;; | 0 | 9,10 | i | 4400 | 4400 | |
| .pull ;; | 0 | 1 | i | 4602 | 4608 | |
| .pull ;; | 0 | 2 | i | 4610 | 4612 | |
| .pull ;; | 0 | 1 | i | 4614 | 4618 | |

Figure 14.5. Pull Commands

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